

SEQUENCE LISTING

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 Schweizer, Johannes
 Diaz-Sarmiento, Chamorrow Samoza
 Belmares, Michael P.

<120> METHODS OF DIAGNOSING CERVICAL CANCER

<130> VITA-008

<150> 60/409,298
 <151> 2002-09-09

<150> 60/450,464
 <151> 2003-02-27

<150> US 02/24655
 <151> 2002-08-02

<150> 60/309,841
 <151> 2001-08-03

<150> 60/360,061
 <151> 2002-02-25

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 <151> 2002-02-19

<150> 60/269,523
 <151> 2001-02-16

<150> 09/710,059
 <151> 2000-11-10

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 Gln Ser Glu Ser Gln Gly Pro Pro Arg Ala Phe Ala Lys Val Asn Ser
 20 25 30
 Ile Ser Pro Gly Ser Pro Ser Ile Ala Gly Leu Gln Val Asp Asp Glu
 35 40 45
 Ile Val Glu Phe Gly Ser Val Asn Thr Gln Asn Phe Gln Ser Leu His
 50 55 60
 Asn Ile Gly Ser Val Val Gln His Ser Glu Gly Ala Leu Ala Pro Thr
 65 70 75 80
 Ile Leu Leu Ser Val Ser Met
 85

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<400> 2
 Leu Arg Lys Glu Pro Glu Ile Ile Thr Val Thr Leu Lys Lys Gln Asn
 1 5 10 15
 Gly Met Gly Leu Ser Ile Val Ala Ala Lys Gly Ala Gly Gln Asp Lys
 20 25 30
 Leu Gly Ile Tyr Val Lys Ser Val Val Lys Gly Gly Ala Ala Asp Val
 35 40 45
 Asp Gly Arg Leu Ala Ala Gly Asp Gln Leu Leu Ser Val Asp Gly Arg
 50 55 60
 Ser Leu Val Gly Leu Ser Gln Glu Arg Ala Ala Glu Leu Met Thr Arg
 65 70 75 80
 Thr Ser Ser Val Val Thr Leu Glu Val Ala Lys Gln Gly
 85 90

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<400> 3
 Leu Ile Arg Pro Ser Val Ile Ser Ile Ile Gly Leu Tyr Lys Glu Lys
 1 5 10 15
 Gly Lys Gly Leu Gly Phe Ser Ile Ala Gly Gly Arg Asp Cys Ile Arg
 20 25 30
 Gly Gln Met Gly Ile Phe Val Lys Thr Ile Phe Pro Asn Gly Ser Ala
 35 40 45
 Ala Glu Asp Gly Arg Leu Lys Glu Gly Asp Glu Ile Leu Asp Val Asn
 50 55 60
 Gly Ile Pro Ile Lys Gly Leu Thr Phe Gln Glu Ala Ile His Thr Phe
 65 70 75 80
 Lys Gln Ile Arg Ser Gly Leu Phe Val Leu Thr Val Arg Thr Lys Leu
 85 90 95
 Val Ser Pro Ser Leu Thr Asn Ser Ser
 100 105

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<400> 4
 Gly Ile Ser Ser Leu Gly Arg Lys Thr Pro Gly Pro Lys Asp Arg Ile
 1 5 10 15
 Val Met Glu Val Thr Leu Asn Lys Glu Pro Arg Val Gly Leu Gly Ile
 20 25 30
 Gly Ala Cys Cys Leu Ala Leu Glu Asn Ser Pro Pro Gly Ile Tyr Ile
 35 40 45
 His Ser Leu Ala Pro Gly Ser Val Ala Lys Met Glu Ser Asn Leu Ser
 50 55 60
 Arg Gly Asp Gln Ile Leu Glu Val Asn Ser Val Asn Val Arg His Ala
 65 70 75 80
 Ala Leu Ser Lys Val His Ala Ile Leu Ser Lys Cys Pro Pro Gly Pro

				85					90					95			
Val	Arg	Leu	Val	Ile	Gly	Arg	His	Pro	Asn	Pro	Lys	Val	Ser	Glu	Gln		
			100					105					110				
Glu	Met	Asp	Glu	Val	Ile	Ala	Arg	Ser	Thr	Tyr	Gln	Glu	Ser	Lys	Glu		
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Ala	Asn	Ser	Ser														
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<210> 5
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Gln	Ser	Glu	Asn	Glu	Glu	Asp	Val	Cys	Phe	Ile	Val	Leu	Asn	Arg	Lys		
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Glu	Gly	Ser	Gly	Leu	Gly	Phe	Ser	Val	Ala	Gly	Gly	Thr	Asp	Val	Glu		
			20					25					30				
Pro	Lys	Ser	Ile	Thr	Val	His	Arg	Val	Phe	Ser	Gln	Gly	Ala	Ala	Ser		
		35					40					45					
Gln	Glu	Gly	Thr	Met	Asn	Arg	Gly	Asp	Phe	Leu	Leu	Ser	Val	Asn	Gly		
	50					55					60						
Ala	Ser	Leu	Ala	Gly	Leu	Ala	His	Gly	Asn	Val	Leu	Lys	Val	Leu	His		
65					70					75					80		
Gln	Ala	Gln	Leu	His	Lys	Asp	Ala	Leu	Val	Val	Ile	Lys	Lys	Gly	Met		
				85					90					95			
Asp	Gln	Pro	Arg	Pro	Ser	Asn	Ser	Ser									
			100					105									

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Leu	Gly	Arg	Ser	Val	Ala	Val	His	Asp	Ala	Leu	Cys	Val	Glu	Val	Leu		
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Lys	Thr	Ser	Ala	Gly	Leu	Gly	Leu	Ser	Leu	Asp	Gly	Gly	Lys	Ser	Ser		
			20					25					30				
Val	Thr	Gly	Asp	Gly	Pro	Leu	Val	Ile	Lys	Arg	Val	Tyr	Lys	Gly	Gly		
		35					40					45					
Ala	Ala	Glu	Gln	Ala	Gly	Ile	Ile	Glu	Ala	Gly	Asp	Glu	Ile	Leu	Ala		
	50					55					60						
Ile	Asn	Gly	Lys	Pro	Leu	Val	Gly	Leu	Met	His	Phe	Asp	Ala	Trp	Asn		
65					70					75					80		
Ile	Met	Lys	Ser	Val	Pro	Glu	Gly	Pro	Val	Gln	Leu	Leu	Ile	Arg	Lys		
				85					90					95			
His	Arg	Asn	Ser	Ser													
			100														

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Gln	Thr	Val	Ile	Leu	Pro	Gly	Pro	Ala	Ala	Trp	Gly	Phe	Arg	Leu	Ser		

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Gly	Gly	Ile	Asp	Phe	Asn	Gln	Pro	Leu	Val	Ile	Thr	Arg	Ile	Thr	Pro	
			20					25					30			
Gly	Ser	Lys	Ala	Ala	Ala	Ala	Asn	Leu	Cys	Pro	Gly	Asp	Val	Ile	Leu	
		35					40					45				
Ala	Ile	Asp	Gly	Phe	Gly	Thr	Glu	Ser	Met	Thr	His	Ala	Asp	Gly	Gln	
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Asp	Arg	Ile	Lys	Ala	Ala	Glu	Phe	Ile	Val							
65					70											

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Ile	Leu	Val	Glu	Val	Gln	Leu	Ser	Gly	Gly	Ala	Pro	Trp	Gly	Phe	Thr	
1				5					10					15		
Leu	Lys	Gly	Gly	Arg	Glu	His	Gly	Glu	Pro	Leu	Val	Ile	Thr	Lys	Ile	
		20						25					30			
Glu	Glu	Gly	Ser	Lys	Ala	Ala	Ala	Val	Asp	Lys	Leu	Leu	Ala	Gly	Asp	
		35					40					45				
Glu	Ile	Val	Gly	Ile	Asn	Asp	Ile	Gly	Leu	Ser	Gly	Phe	Arg	Gln	Glu	
	50					55					60					
Ala	Ile	Cys	Leu	Val	Lys	Gly	Ser	His	Lys	Thr	Leu	Lys	Leu	Val	Val	
65					70					75					80	
Lys	Arg	Asn	Ser	Ser												
				85												

<210> 9
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 <213> Homo sapiens

<400> 9																
Arg	Glu	Lys	Pro	Leu	Phe	Thr	Arg	Asp	Ala	Ser	Gln	Leu	Lys	Gly	Thr	
1				5					10					15		
Phe	Leu	Ser	Thr	Thr	Leu	Lys	Lys	Ser	Asn	Met	Gly	Phe	Gly	Phe	Thr	
		20						25					30			
Ile	Ile	Gly	Gly	Asp	Glu	Pro	Asp	Glu	Phe	Leu	Gln	Val	Lys	Ser	Val	
		35					40					45				
Ile	Pro	Asp	Gly	Pro	Ala	Ala	Gln	Asp	Gly	Lys	Met	Glu	Thr	Gly	Asp	
	50					55					60					
Val	Ile	Val	Tyr	Ile	Asn	Glu	Val	Cys	Val	Leu	Gly	His	Thr	His	Ala	
65					70					75					80	
Asp	Val	Val	Lys	Leu	Phe	Gln	Ser	Val	Pro	Ile	Gly	Gln	Ser	Val	Asn	
			85						90					95		
Leu	Val	Leu	Cys	Arg	Gly	Tyr	Pro									
			100													

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<400> 10
 Leu Ser Gly Ala Thr Gln Ala Glu Leu Met Thr Leu Thr Ile Val Lys

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Gly	Ala	Gln	Gly	Phe	Gly	Phe	Thr	Ile	Ala	Asp	Ser	Pro	Thr	Gly	Gln
		20						25					30		
Arg	Val	Lys	Gln	Ile	Leu	Asp	Ile	Gln	Gly	Cys	Pro	Gly	Leu	Cys	Glu
		35					40					45			
Gly	Asp	Leu	Ile	Val	Glu	Ile	Asn	Gln	Gln	Asn	Val	Gln	Asn	Leu	Ser
	50					55					60				
His	Thr	Glu	Val	Val	Asp	Ile	Leu	Lys	Asp	Cys	Pro	Ile	Gly	Ser	Glu
65					70					75					80
Thr	Ser	Leu	Ile	Ile	His	Arg	Gly	Gly	Phe	Phe					
				85					90						

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<400> 11															
His	Tyr	Lys	Glu	Leu	Asp	Val	His	Leu	Arg	Arg	Met	Glu	Ser	Gly	Phe
1				5					10					15	
Gly	Phe	Arg	Ile	Leu	Gly	Gly	Asp	Glu	Pro	Gly	Gln	Pro	Ile	Leu	Ile
			20					25					30		
Gly	Ala	Val	Ile	Ala	Met	Gly	Ser	Ala	Asp	Arg	Asp	Gly	Arg	Leu	His
		35					40					45			
Pro	Gly	Asp	Glu	Leu	Val	Tyr	Val	Asp	Gly	Ile	Pro	Val	Ala	Gly	Lys
	50					55					60				
Thr	His	Arg	Tyr	Val	Ile	Asp	Leu	Met	His	His	Ala	Ala	Arg	Asn	Gly
65					70					75					80
Gln	Val	Asn	Leu	Thr	Val	Arg	Arg	Lys	Val	Leu	Cys	Gly			
				85					90						

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<400> 12															
Glu	Gly	Arg	Gly	Ile	Ser	Ser	His	Ser	Leu	Gln	Thr	Ser	Asp	Ala	Val
1				5					10					15	
Ile	His	Arg	Lys	Glu	Asn	Glu	Gly	Phe	Gly	Phe	Val	Ile	Ile	Ser	Ser
			20					25					30		
Leu	Asn	Arg	Pro	Glu	Ser	Gly	Ser	Thr	Ile	Thr	Val	Pro	His	Lys	Ile
		35					40					45			
Gly	Arg	Ile	Ile	Asp	Gly	Ser	Pro	Ala	Asp	Arg	Cys	Ala	Lys	Leu	Lys
	50					55					60				
Val	Gly	Asp	Arg	Ile	Leu	Ala	Val	Asn	Gly	Gln	Ser	Ile	Ile	Asn	Met
65					70					75					80
Pro	His	Ala	Asp	Ile	Val	Lys	Leu	Ile	Lys	Asp	Ala	Gly	Leu	Ser	Val
				85					90					95	
Thr	Leu	Arg	Ile	Ile	Pro	Gln	Glu	Glu	Leu						
				100				105							

<210> 13
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<400> 13

Leu Ser Asp Tyr Arg Gln Pro Gln Asp Phe Asp Tyr Phe Thr Val Asp
1 5 10 15
Met Glu Lys Gly Ala Lys Gly Phe Gly Phe Ser Ile Arg Gly Gly Arg
20 25 30
Glu Tyr Lys Met Asp Leu Tyr Val Leu Arg Leu Ala Glu Asp Gly Pro
35 40 45
Ala Ile Arg Asn Gly Arg Met Arg Val Gly Asp Gln Ile Ile Glu Ile
50 55 60
Asn Gly Glu Ser Thr Arg Asp Met Thr His Ala Arg Ala Ile Glu Leu
65 70 75 80
Ile Lys Ser Gly Gly Arg Arg Val Arg Leu Leu Leu Lys Arg Gly Thr
85 90 95
Gly Gln

<210> 14

<211> 90

<212> PRT

<213> Homo sapiens

<400> 14

His Glu Ser Val Ile Gly Arg Asn Pro Glu Gly Gln Leu Gly Phe Glu
1 5 10 15
Leu Lys Gly Gly Ala Glu Asn Gly Gln Phe Pro Tyr Leu Gly Glu Val
20 25 30
Lys Pro Gly Lys Val Ala Tyr Glu Ser Gly Ser Lys Leu Val Ser Glu
35 40 45
Glu Leu Leu Leu Glu Val Asn Glu Thr Pro Val Ala Gly Leu Thr Ile
50 55 60
Arg Asp Val Leu Ala Val Ile Lys His Cys Lys Asp Pro Leu Arg Leu
65 70 75 80
Lys Cys Val Lys Gln Gly Gly Ile His Arg
85 90

<210> 15

<211> 126

<212> PRT

<213> Homo sapiens

<400> 15

Asn Leu Met Phe Arg Lys Phe Ser Leu Glu Arg Pro Phe Arg Pro Ser
1 5 10 15
Val Thr Ser Val Gly His Val Arg Gly Pro Gly Pro Ser Val Gln His
20 25 30
Thr Thr Leu Asn Gly Asp Ser Leu Thr Ser Gln Leu Thr Leu Leu Gly
35 40 45
Gly Asn Ala Arg Gly Ser Phe Val His Ser Val Lys Pro Gly Ser Leu
50 55 60
Ala Glu Lys Ala Gly Leu Arg Glu Gly His Gln Leu Leu Leu Leu Glu
65 70 75 80
Gly Cys Ile Arg Gly Glu Arg Gln Ser Val Pro Leu Asp Thr Cys Thr
85 90 95
Lys Glu Glu Ala His Trp Thr Ile Gln Arg Cys Ser Gly Pro Val Thr
100 105 110
Leu His Tyr Lys Val Asn His Glu Gly Tyr Arg Lys Leu Val
115 120 125

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<400> 16
 Ile Leu Ser Gln Val Thr Met Leu Ala Phe Gln Gly Asp Ala Leu Leu
 1 5 10 15
 Glu Gln Ile Ser Val Ile Gly Gly Asn Leu Thr Gly Ile Phe Ile His
 20 25 30
 Arg Val Thr Pro Gly Ser Ala Ala Asp Gln Met Ala Leu Arg Pro Gly
 35 40 45
 Thr Gln Ile Val Met Val Asp Tyr Glu Ala Ser Glu Pro Leu Phe Lys
 50 55 60
 Ala Val Leu Glu Asp Thr Thr Leu Glu Glu Ala Val Gly Leu Leu Arg
 65 70 75 80
 Arg Val Asp Gly Phe Cys Cys Leu Ser Val Lys Val Asn Thr Asp Gly
 85 90 95
 Tyr Lys Arg Leu
 100

<210> 17
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<400> 17
 Thr Arg Val Arg Leu Val Gln Phe Gln Lys Asn Thr Asp Glu Pro Met
 1 5 10 15
 Gly Ile Thr Leu Lys Met Asn Glu Leu Asn His Cys Ile Val Ala Arg
 20 25 30
 Ile Met His Gly Gly Met Ile His Arg Gln Gly Thr Leu His Val Gly
 35 40 45
 Asp Glu Ile Arg Glu Ile Asn Gly Ile Ser Val Ala Asn Gln Thr Val
 50 55 60
 Glu Gln Leu Gln Lys Met Leu Arg Glu Met Arg Gly Ser Ile Thr Phe
 65 70 75 80
 Lys Ile Val Pro Ser Tyr Arg Thr Gln Ser
 85 90

<210> 18
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 <213> Homo sapiens

<400> 18
 Leu Glu Gln Lys Ala Val Leu Glu Gln Val Gln Leu Asp Ser Pro Leu
 1 5 10 15
 Gly Leu Glu Ile His Thr Thr Ser Asn Cys Gln His Phe Val Ser Gln
 20 25 30
 Val Asp Thr Gln Val Pro Thr Asp Ser Arg Leu Gln Ile Gln Pro Gly
 35 40 45
 Asp Glu Val Val Gln Ile Asn Glu Gln Val Val Val Gly Trp Pro Arg
 50 55 60
 Lys Asn Met Val Arg Glu Leu Leu Arg Glu Pro Ala Gly Leu Ser Leu
 65 70 75 80
 Val Leu Lys Lys Ile Pro Ile Pro

<210> 19
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<400> 19
 Gln Arg Lys Leu Val Thr Val Glu Lys Gln Asp Asn Glu Thr Phe Gly
 1 5 10 15
 Phe Glu Ile Gln Ser Tyr Arg Pro Gln Asn Gln Asn Ala Cys Ser Ser
 20 25 30
 Glu Met Phe Thr Leu Ile Cys Lys Ile Gln Glu Asp Ser Pro Ala His
 35 40 45
 Cys Ala Gly Leu Gln Ala Gly Asp Val Leu Ala Asn Ile Asn Gly Val
 50 55 60
 Ser Thr Glu Gly Phe Thr Tyr Lys Gln Val Val Asp Leu Ile Arg Ser
 65 70 75 80
 Ser Gly Asn Leu Leu Thr Ile Glu Thr Leu Asn Gly
 85 90

<210> 20
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<400> 20
 Arg Cys Leu Ile Gln Thr Lys Gly Gln Arg Ser Met Asp Gly Tyr Pro
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 Glu Gln Phe Cys Val Arg Ile Glu Lys Asn Pro Gly Leu Gly Phe Ser
 20 25 30
 Ile Ser Gly Gly Ile Ser Gly Gln Gly Asn Pro Phe Lys Pro Ser Asp
 35 40 45
 Lys Gly Ile Phe Val Thr Arg Val Gln Pro Asp Gly Pro Ala Ser Asn
 50 55 60
 Leu Leu Gln Pro Gly Asp Lys Ile Leu Gln Ala Asn Gly His Ser Phe
 65 70 75 80
 Val His Met Glu His Glu Lys Ala Val Leu Leu Leu Lys Ser Phe Gln
 85 90 95
 Asn Thr Val Asp Leu Val Ile Gln Arg Glu Leu Thr Val
 100 105

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<400> 21
 Ile Gln Val Asn Gly Thr Asp Ala Asp Tyr Glu Tyr Glu Glu Ile Thr
 1 5 10 15
 Leu Glu Arg Gly Asn Ser Gly Leu Gly Phe Ser Ile Ala Gly Gly Thr
 20 25 30
 Asp Asn Pro His Ile Gly Asp Asp Ser Ser Ile Phe Ile Thr Lys Ile
 35 40 45
 Ile Thr Gly Gly Ala Ala Ala Gln Asp Gly Arg Leu Arg Val Asn Asp
 50 55 60
 Cys Ile Leu Gln Val Asn Glu Val Asp Val Arg Asp Val Thr His Ser

50		55		60											
Asp	Cys	Ile	Leu	Arg	Val	Asn	Glu	Val	Asp	Val	Ser	Glu	Val	Ser	His
65					70					75					80
Ser	Lys	Ala	Val	Glu	Ala	Leu	Lys	Glu	Ala	Gly	Ser	Ile	Val	Arg	Leu
			85						90					95	
Tyr	Val	Arg	Arg	Arg											
			100												

<210> 25
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 <213> Homo sapiens

<400> 25
Ile Ser Val Val Glu Ile Lys Leu Phe Lys Gly Pro Lys Gly Leu Gly
1 5 10 15
Phe Ser Ile Ala Gly Gly Val Gly Asn Gln His Ile Pro Gly Asp Asn
20 25 30
Ser Ile Tyr Val Thr Lys Ile Ile Asp Gly Gly Ala Ala Gln Lys Asp
35 40 45
Gly Arg Leu Gln Val Gly Asp Arg Leu Leu Met Val Asn Asn Tyr Ser
50 55 60
Leu Glu Glu Val Thr His Glu Glu Ala Val Ala Ile Leu Lys Asn Thr
65 70 75 80
Ser Glu Val Val Tyr Leu Lys Val Gly Asn Pro Thr Thr Ile
85 90

<210> 26
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 <213> Homo sapiens

<400> 26
Ile Trp Ala Val Ser Leu Glu Gly Glu Pro Arg Lys Val Val Leu His
1 5 10 15
Lys Gly Ser Thr Gly Leu Gly Phe Asn Ile Val Gly Gly Glu Asp Gly
20 25 30
Glu Gly Ile Phe Val Ser Phe Ile Leu Ala Gly Gly Pro Ala Asp Leu
35 40 45
Ser Gly Glu Leu Gln Arg Gly Asp Gln Ile Leu Ser Val Asn Gly Ile
50 55 60
Asp Leu Arg Gly Ala Ser His Glu Gln Ala Ala Ala Ala Leu Lys Gly
65 70 75 80
Ala Gly Gln Thr Val Thr Ile Ile Ala Gln Tyr Gln Pro Glu Asp
85 90 95

<210> 27
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 <213> Homo sapiens

<400> 27
Gly Ile Pro Tyr Val Glu Glu Pro Arg His Val Lys Val Gln Lys Gly
1 5 10 15
Ser Glu Pro Leu Gly Ile Ser Ile Val Ser Gly Glu Lys Gly Gly Ile
20 25 30
Tyr Val Ser Lys Val Thr Val Gly Ser Ile Ala His Gln Ala Gly Leu

		35					40					45					
Glu	Tyr	Gly	Asp	Gln	Leu	Leu	Glu	Phe	Asn	Gly	Ile	Asn	Leu	Arg	Ser		
	50					55					60						
Ala	Thr	Glu	Gln	Gln	Ala	Arg	Leu	Ile	Ile	Gly	Gln	Gln	Cys	Asp	Thr		
65					70					75					80		
Ile	Thr	Ile	Leu	Ala	Gln	Tyr	Asn	Pro	His	Val	His	Gln	Leu	Arg	Asn		
			85						90					95			
Ser	Ser	Glx	Leu	Thr	Asp												
			100														

<210> 28
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 <213> Homo sapiens

<400> 28																	
Gly	Ile	Leu	Ala	Gly	Asp	Ala	Asn	Lys	Lys	Thr	Leu	Glu	Pro	Arg	Val		
1				5					10					15			
Val	Phe	Ile	Lys	Lys	Ser	Gln	Leu	Glu	Leu	Gly	Val	His	Leu	Cys	Gly		
			20					25					30				
Gly	Asn	Leu	His	Gly	Val	Phe	Val	Ala	Glu	Val	Glu	Asp	Asp	Ser	Pro		
	35						40					45					
Ala	Lys	Gly	Pro	Asp	Gly	Leu	Val	Pro	Gly	Asp	Leu	Ile	Leu	Glu	Tyr		
	50					55					60						
Gly	Ser	Leu	Asp	Val	Arg	Asn	Lys	Thr	Val	Glu	Glu	Val	Tyr	Val	Glu		
65					70					75					80		
Met	Leu	Lys	Pro	Arg	Asp	Gly	Val	Arg	Leu	Lys	Val	Gln	Tyr	Arg	Pro		
				85					90					95			
Glu	Glu	Phe	Ile	Val	Thr	Asp											
				100													

<210> 29
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<400> 29																	
Pro	Thr	Ser	Pro	Glu	Ile	Gln	Glu	Leu	Arg	Gln	Met	Leu	Gln	Ala	Pro		
1				5					10					15			
His	Phe	Lys	Ala	Leu	Leu	Ser	Ala	His	Asp	Thr	Ile	Ala	Gln	Lys	Asp		
			20					25					30				
Phe	Glu	Pro	Leu	Leu	Pro	Pro	Leu	Pro	Asp	Asn	Ile	Pro	Glu	Ser	Glu		
	35						40					45					
Glu	Ala	Met	Arg	Ile	Val	Cys	Leu	Val	Lys	Asn	Gln	Gln	Pro	Leu	Gly		
	50					55					60						
Ala	Thr	Ile	Lys	Arg	His	Glu	Met	Thr	Gly	Asp	Ile	Leu	Val	Ala	Arg		
65					70					75					80		
Ile	Ile	His	Gly	Gly	Leu	Ala	Glu	Arg	Ser	Gly	Leu	Leu	Tyr	Ala	Gly		
			85						90					95			
Asp	Lys	Leu	Val	Glu	Val	Asn	Gly	Val	Ser	Val	Glu	Gly	Leu	Asp	Pro		
			100					105					110				
Glu	Gln	Val	Ile	His	Ile	Leu	Ala	Met	Ser	Arg	Gly	Thr	Ile	Met	Phe		
	115					120					125						
Lys	Val	Val	Pro	Val	Ser	Asp	Pro	Pro	Val	Asn	Ser	Ser					
	130					135					140						

<210> 30

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<400> 30
 Pro Thr Ser Pro Glu Ile Gln Glu Leu Arg Gln Met Leu Gln Ala Pro
 1 5 10 15
 His Phe Lys Gly Ala Thr Ile Lys Arg His Glu Met Thr Gly Asp Ile
 20 25 30
 Leu Val Ala Arg Ile Ile His Gly Gly Leu Ala Glu Arg Ser Gly Leu
 35 40 45
 Leu Tyr Ala Gly Asp Lys Leu Val Glu Val Asn Gly Val Ser Val Glu
 50 55 60
 Gly Leu Asp Pro Glu Gln Val Ile His Ile Leu Ala Met Ser Arg Gly
 65 70 75 80
 Thr Ile Met Phe Lys Val Val Pro Val Ser Asp Pro Pro Val Asn Ser
 85 90 95
 Ser

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<400> 31
 Leu Asn Ile Val Thr Val Thr Leu Asn Met Glu Arg His His Phe Leu
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 Gly Ile Ser Ile Val Gly Gln Ser Asn Asp Arg Gly Asp Gly Gly Ile
 20 25 30
 Tyr Ile Gly Ser Ile Met Lys Gly Gly Ala Val Ala Ala Asp Gly Arg
 35 40 45
 Ile Glu Pro Gly Asp Met Leu Leu Gln Val Asn Asp Val Asn Phe Glu
 50 55 60
 Asn Met Ser Asn Asp Asp Ala Val Arg Val Leu Arg Glu Ile Val Ser
 65 70 75 80
 Gln Thr Gly Pro Ile Ser Leu Thr Val Ala Lys Cys Trp
 85 90

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<400> 32
 Leu Asn Ile Ile Thr Val Thr Leu Asn Met Glu Lys Tyr Asn Phe Leu
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 Gly Ile Ser Ile Val Gly Gln Ser Asn Glu Arg Gly Asp Gly Gly Ile
 20 25 30
 Tyr Ile Gly Ser Ile Met Lys Gly Gly Ala Val Ala Ala Asp Gly Arg
 35 40 45
 Ile Glu Pro Gly Asp Met Leu Leu Gln Val Asn Asp Met Asn Phe Glu
 50 55 60
 Asn Met Ser Asn Asp Asp Ala Val Arg Val Leu Arg Asp Ile Val His
 65 70 75 80
 Lys Pro Gly Pro Ile Val Leu Thr Val Ala Lys Cys Trp Asp Pro Ser
 85 90 95
 Pro Gln Asn Ser

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 <213> Homo sapiens

<400> 33
 Ile Ile Thr Val Thr Leu Asn Met Glu Lys Tyr Asn Phe Leu Gly Ile
 1 5 10 15
 Ser Ile Val Gly Gln Ser Asn Glu Arg Gly Asp Gly Gly Ile Tyr Ile
 20 25 30
 Gly Ser Ile Met Lys Gly Gly Ala Val Ala Ala Asp Gly Arg Ile Glu
 35 40 45
 Pro Gly Asp Met Leu Leu Gln Val Asn Glu Ile Asn Phe Glu Asn Met
 50 55 60
 Ser Asn Asp Asp Ala Val Arg Val Leu Arg Glu Ile Val His Lys Pro
 65 70 75 80
 Gly Pro Ile Thr Leu Thr Val Ala Lys Cys Trp Asp Pro Ser Pro
 85 90 95

<210> 34
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 34
 Thr Thr Gln Gln Ile Asp Leu Gln Gly Pro Gly Pro Trp Gly Phe Arg
 1 5 10 15
 Leu Val Gly Arg Lys Asp Phe Glu Gln Pro Leu Ala Ile Ser Arg Val
 20 25 30
 Thr Pro Gly Ser Lys Ala Ala Leu Ala Asn Leu Cys Ile Gly Asp Val
 35 40 45
 Ile Thr Ala Ile Asp Gly Glu Asn Thr Ser Asn Met Thr His Leu Glu
 50 55 60
 Ala Gln Asn Arg Ile Lys Gly Cys Thr Asp Asn Leu Thr Leu Thr Val
 65 70 75 80
 Ala Arg Ser Glu His Lys Val Trp Ser Pro Leu Val
 85 90

<210> 35
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 35
 Ile Phe Met Asp Ser Phe Lys Val Val Leu Glu Gly Pro Ala Pro Trp
 1 5 10 15
 Gly Phe Arg Leu Gln Gly Gly Lys Asp Phe Asn Val Pro Leu Ser Ile
 20 25 30
 Ser Arg Leu Thr Pro Gly Gly Lys Ala Ala Gln Ala Gly Val Ala Val
 35 40 45
 Gly Asp Trp Val Leu Ser Ile Asp Gly Glu Asn Ala Gly Ser Leu Thr
 50 55 60
 His Ile Glu Ala Gln Asn Lys Ile Arg Ala Cys Gly Glu Arg Leu Ser
 65 70 75 80
 Leu Gly Leu Ser Arg Ala Gln Pro Val

<210> 36
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 36
 Gln Gly His Glu Leu Ala Lys Gln Glu Ile Arg Val Arg Val Glu Lys
 1 5 10 15
 Asp Pro Glu Leu Gly Phe Ser Ile Ser Gly Gly Val Gly Gly Arg Gly
 20 25 30
 Asn Pro Phe Arg Pro Asp Asp Asp Gly Ile Phe Val Thr Arg Val Gln
 35 40 45
 Pro Glu Gly Pro Ala Ser Lys Leu Leu Gln Pro Gly Asp Lys Ile Ile
 50 55 60
 Gln Ala Asn Gly Tyr Ser Phe Ile Asn Ile Glu His Gly Gln Ala Val
 65 70 75 80
 Ser Leu Leu Lys Thr Phe Gln Asn Thr Val Glu Leu Ile Ile Val Arg
 85 90 95
 Glu Val Ser Ser
 100

<210> 37
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 37
 Ile Leu Cys Cys Leu Glu Lys Gly Pro Asn Gly Tyr Gly Phe His Leu
 1 5 10 15
 His Gly Glu Lys Gly Lys Leu Gly Gln Tyr Ile Arg Leu Val Glu Pro
 20 25 30
 Gly Ser Pro Ala Glu Lys Ala Gly Leu Leu Ala Gly Asp Arg Leu Val
 35 40 45
 Glu Val Asn Gly Glu Asn Val Glu Lys Glu Thr His Gln Gln Val Val
 50 55 60
 Ser Arg Ile Arg Ala Ala Leu Asn Ala Val Arg Leu Leu Val Val Asp
 65 70 75 80
 Pro Glu Phe Ile Val Thr Asp
 85

<210> 38
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 38
 Ile Arg Leu Cys Thr Met Lys Lys Gly Pro Ser Gly Tyr Gly Phe Asn
 1 5 10 15
 Leu His Ser Asp Lys Ser Lys Pro Gly Gln Phe Ile Arg Ser Val Asp
 20 25 30
 Pro Asp Ser Pro Ala Glu Ala Ser Gly Leu Arg Ala Gln Asp Arg Ile
 35 40 45
 Val Glu Val Asn Gly Val Cys Met Glu Gly Lys Gln His Gly Asp Val
 50 55 60
 Val Ser Ala Ile Arg Ala Gly Gly Asp Glu Thr Lys Leu Leu Val Val

65		70		75	80						
Asp	Arg	Glu	Thr	Asp	Glu	Phe	Phe	Met	Asn	Ser	Ser
				85					90		

<210> 39
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 39
 Lys Asn Pro Ser Gly Glu Leu Lys Thr Val Thr Leu Ser Lys Met Lys
 1 5 10 15
 Gln Ser Leu Gly Ile Ser Ile Ser Gly Gly Ile Glu Ser Lys Val Gln
 20 25 30
 Pro Met Val Lys Ile Glu Lys Ile Phe Pro Gly Gly Ala Ala Phe Leu
 35 40 45
 Ser Gly Ala Leu Gln Ala Gly Phe Glu Leu Val Ala Val Asp Gly Glu
 50 55 60
 Asn Leu Glu Gln Val Thr His Gln Arg Ala Val Asp Thr Ile Arg Arg
 65 70 75 80
 Ala Tyr Arg Asn Lys Ala Arg Glu Pro Met Glu Leu Val Val Arg Val
 85 90 95
 Pro Gly Pro Ser Pro Arg Pro Ser Pro Ser Asp
 100 105

<210> 40
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 40
 Glu Gly His Ser His Pro Arg Val Val Glu Leu Pro Lys Thr Glu Glu
 1 5 10 15
 Gly Leu Gly Phe Asn Ile Met Gly Gly Lys Glu Gln Asn Ser Pro Ile
 20 25 30
 Tyr Ile Ser Arg Ile Ile Pro Gly Gly Ile Ala Asp Arg His Gly Gly
 35 40 45
 Leu Lys Arg Gly Asp Gln Leu Leu Ser Val Asn Gly Val Ser Val Glu
 50 55 60
 Gly Glu His His Glu Lys Ala Val Glu Leu Leu Lys Ala Ala Gln Gly
 65 70 75 80
 Lys Val Lys Leu Val Val Arg Tyr Thr Pro Lys Val Leu Glu Glu Met
 85 90 95
 Glu

<210> 41
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 41
 Pro Gly Ala Pro Tyr Ala Arg Lys Thr Phe Thr Ile Val Gly Asp Ala
 1 5 10 15
 Val Gly Trp Gly Phe Val Val Arg Gly Ser Lys Pro Cys His Ile Gln
 20 25 30
 Ala Val Asp Pro Ser Gly Pro Ala Ala Ala Ala Gly Met Lys Val Cys

1	5	10	15
Tyr Ala Gly Phe Gly Leu Thr Leu Gly Gly Gly Arg Asp Val Ala Gly			
20	25	30	
Asp Thr Pro Leu Ala Val Arg Gly Leu Leu Lys Asp Gly Pro Ala Gln			
35	40	45	
Arg Cys Gly Arg Leu Glu Val Gly Asp Leu Val Leu His Ile Asn Gly			
50	55	60	
Glu Ser Thr Gln Gly Leu Thr His Ala Gln Ala Val Glu Arg Ile Arg			
65	70	75	80
Ala Gly Gly Pro Gln Leu His Leu Val Ile Arg Arg Pro Leu Glu Thr			
85	90	95	
His Pro Gly Lys Pro Arg Gly Val			
100			

<210> 45
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 45
Pro Val Met Ser Gln Cys Ala Cys Leu Glu Glu Val His Leu Pro Asn
1 5 10 15
Ile Lys Pro Gly Glu Gly Leu Gly Met Tyr Ile Lys Ser Thr Tyr Asp
20 25 30
Gly Leu His Val Ile Thr Gly Thr Thr Glu Asn Ser Pro Ala Asp Arg
35 40 45
Ser Gln Lys Ile His Ala Gly Asp Glu Val Ile Gln Val Asn Gln Gln
50 55 60
Thr Val Val Gly Trp Gln Leu Lys Asn Leu Val Lys Lys Leu Arg Glu
65 70 75 80
Asn Pro Thr Gly Val Val Leu Leu Leu Lys Lys Arg Pro Thr Gly Ser
85 90 95
Phe Asn Phe Thr Pro Glu Phe Ile Val Thr Asp
100 105

<210> 46
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 46
Leu Asp Asp Glu Glu Asp Ser Val Lys Ile Ile Arg Leu Val Lys Asn
1 5 10 15
Arg Glu Pro Leu Gly Ala Thr Ile Lys Lys Asp Glu Gln Thr Gly Ala
20 25 30
Ile Ile Val Ala Arg Ile Met Arg Gly Gly Ala Ala Asp Arg Ser Gly
35 40 45
Leu Ile His Val Gly Asp Glu Leu Arg Glu Val Asn Gly Ile Pro Val
50 55 60
Glu Asp Lys Arg Pro Glu Glu Ile Ile Gln Ile Leu Ala Gln Ser Gln
65 70 75 80
Gly Ala Ile Thr Phe Lys Ile Ile Pro Gly Ser Lys Glu Glu Thr Pro
85 90 95
Ser Asn Ser Ser
100

<210> 47

<211> 83
 <212> PRT
 <213> Homo sapiens

<400> 47
 Val Val Glu Leu Met Lys Lys Glu Gly Thr Thr Leu Gly Leu Thr Val
 1 5 10 15
 Ser Gly Gly Ile Asp Lys Asp Gly Lys Pro Arg Val Ser Asn Leu Arg
 20 25 30
 Gln Gly Gly Ile Ala Ala Arg Ser Asp Gln Leu Asp Val Gly Asp Tyr
 35 40 45
 Ile Lys Ala Val Asn Gly Ile Asn Leu Ala Lys Phe Arg His Asp Glu
 50 55 60
 Ile Ile Ser Leu Leu Lys Asn Val Gly Glu Arg Val Val Leu Glu Val
 65 70 75 80
 Glu Tyr Glu

<210> 48
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 48
 Arg Ser Ser Val Ile Phe Arg Thr Val Glu Val Thr Leu His Lys Glu
 1 5 10 15
 Gly Asn Thr Phe Gly Phe Val Ile Arg Gly Gly Ala His Asp Asp Arg
 20 25 30
 Asn Lys Ser Arg Pro Val Val Ile Thr Cys Val Arg Pro Gly Gly Pro
 35 40 45
 Ala Asp Arg Glu Gly Thr Ile Lys Pro Gly Asp Arg Leu Leu Ser Val
 50 55 60
 Asp Gly Ile Arg Leu Leu Gly Thr Thr His Ala Glu Ala Met Ser Ile
 65 70 75 80
 Leu Lys Gln Cys Gly Gln Glu Ala Ala Leu Leu Ile Glu Tyr Asp Val
 85 90 95
 Ser Val Met Asp Ser Val Ala Thr Ala Ser Gly Asn Ser Ser
 100 105 110

<210> 49
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 49
 His Val Ala Thr Ala Ser Gly Pro Leu Leu Val Glu Val Ala Lys Thr
 1 5 10 15
 Pro Gly Ala Ser Leu Gly Val Ala Leu Thr Thr Ser Met Cys Cys Asn
 20 25 30
 Lys Gln Val Ile Val Ile Asp Lys Ile Lys Ser Ala Ser Ile Ala Asp
 35 40 45
 Arg Cys Gly Ala Leu His Val Gly Asp His Ile Leu Ser Ile Asp Gly
 50 55 60
 Thr Ser Met Glu Tyr Cys Thr Leu Ala Glu Ala Thr Gln Phe Leu Ala
 65 70 75 80
 Asn Thr Thr Asp Gln Val Lys Leu Glu Ile Leu Pro His His Gln Thr
 85 90 95
 Arg Leu Ala Leu Lys Gly Pro Asn Ser Ser

<210> 50
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 50
 Thr Glu Thr Thr Glu Val Val Leu Thr Ala Asp Pro Val Thr Gly Phe
 1 5 10 15
 Gly Ile Gln Leu Gln Gly Ser Val Phe Ala Thr Glu Thr Leu Ser Ser
 20 25 30
 Pro Pro Leu Ile Ser Tyr Ile Glu Ala Asp Ser Pro Ala Glu Arg Cys
 35 40 45
 Gly Val Leu Gln Ile Gly Asp Arg Val Met Ala Ile Asn Gly Ile Pro
 50 55 60
 Thr Glu Asp Ser Thr Phe Glu Glu Ala Ser Gln Leu Leu Arg Asp Ser
 65 70 75 80
 Ser Ile Thr Ser Lys Val Thr Leu Glu Ile Glu Phe Asp Val Ala Glu
 85 90 95
 Ser

<210> 51
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 51
 Ala Glu Ser Val Ile Pro Ser Ser Gly Thr Phe His Val Lys Leu Pro
 1 5 10 15
 Lys Lys His Asn Val Glu Leu Gly Ile Thr Ile Ser Ser Pro Ser Ser
 20 25 30
 Arg Lys Pro Gly Asp Pro Leu Val Ile Ser Asp Ile Lys Lys Gly Ser
 35 40 45
 Val Ala His Arg Thr Gly Thr Leu Glu Leu Gly Asp Lys Leu Leu Ala
 50 55 60
 Ile Asp Asn Ile Arg Leu Asp Asn Cys Ser Met Glu Asp Ala Val Gln
 65 70 75 80
 Ile Leu Gln Gln Cys Glu Asp Leu Val Lys Leu Lys Ile Arg Lys Asp
 85 90 95
 Glu Asp Asn Ser Asp
 100

<210> 52
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 52
 Ile Tyr Thr Val Glu Leu Lys Arg Tyr Gly Gly Pro Leu Gly Ile Thr
 1 5 10 15
 Ile Ser Gly Thr Glu Glu Pro Phe Asp Pro Ile Ile Ile Ser Ser Leu
 20 25 30
 Thr Lys Gly Gly Leu Ala Glu Arg Thr Gly Ala Ile His Ile Gly Asp
 35 40 45
 Arg Ile Leu Ala Ile Asn Ser Ser Ser Leu Lys Gly Lys Pro Leu Ser

50		55		60											
Glu	Ala	Ile	His	Leu	Leu	Gln	Met	Ala	Gly	Glu	Thr	Val	Thr	Leu	Lys
65					70					75					80
Ile	Lys	Lys	Gln	Thr	Asp	Ala	Gln	Ser	Ala						
				85					90						

<210> 53
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 53
Ile Met Ser Pro Thr Pro Val Glu Leu His Lys Val Thr Leu Tyr Lys
1 5 10 15
Asp Ser Asp Met Glu Asp Phe Gly Phe Ser Val Ala Asp Gly Leu Leu
20 25 30
Glu Lys Gly Val Tyr Val Lys Asn Ile Arg Pro Ala Gly Pro Gly Asp
35 40 45
Leu Gly Gly Leu Lys Pro Tyr Asp Arg Leu Leu Gln Val Asn His Val
50 55 60
Arg Thr Arg Asp Phe Asp Cys Cys Leu Val Val Pro Leu Ile Ala Glu
65 70 75 80
Ser Gly Asn Lys Leu Asp Leu Val Ile Ser Arg Asn Pro Leu Ala
85 90 95

<210> 54
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 54
Ser Arg Gly Cys Glu Thr Arg Glu Leu Ala Leu Pro Arg Asp Gly Gln
1 5 10 15
Gly Arg Leu Gly Phe Glu Val Asp Ala Glu Gly Phe Val Thr His Val
20 25 30
Glu Arg Phe Thr Phe Ala Glu Thr Ala Gly Leu Arg Pro Gly Ala Arg
35 40 45
Leu Leu Arg Val Cys Gly Gln Thr Leu Pro Ser Leu Arg Pro Glu Ala
50 55 60
Ala Ala Gln Leu Leu Arg Ser Ala Pro Lys Val Cys Val Thr Val Leu
65 70 75 80
Pro Pro Asp Glu Ser Gly Arg Pro
85

<210> 55
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 55
Ala Lys Ala Lys Trp Arg Gln Val Val Leu Gln Lys Ala Ser Arg Glu
1 5 10 15
Ser Pro Leu Gln Phe Ser Leu Asn Gly Gly Ser Glu Lys Gly Phe Gly
20 25 30
Ile Phe Val Glu Gly Val Glu Pro Gly Ser Lys Ala Ala Asp Ser Gly
35 40 45
Leu Lys Arg Gly Asp Gln Ile Met Glu Val Asn Gly Gln Asn Phe Glu

50 55 60
 Asn Ile Thr Phe Met Lys Ala Val Glu Ile Leu Arg Asn Asn Thr His
 65 70 75 80
 Leu Ala Leu Thr Val Lys Thr Asn Ile Phe Val Phe Lys Glu Leu
 85 90 95

<210> 56
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 56
 Leu Glu Asn Val Ile Ala Lys Ser Leu Leu Ile Lys Ser Asn Glu Gly
 1 5 10 15
 Ser Tyr Gly Phe Gly Leu Glu Asp Lys Asn Lys Val Pro Ile Ile Lys
 20 25 30
 Leu Val Glu Lys Gly Ser Asn Ala Glu Met Ala Gly Met Glu Val Gly
 35 40 45
 Lys Lys Ile Phe Ala Ile Asn Gly Asp Leu Val Phe Met Arg Pro Phe
 50 55 60
 Asn Glu Val Asp Cys Phe Leu Lys Ser Cys Leu Asn Ser Arg Lys Pro
 65 70 75 80
 Leu Arg Val Leu Val Ser Thr Lys Pro
 85

<210> 57
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 57
 Pro Arg Glu Thr Val Lys Ile Pro Asp Ser Ala Asp Gly Leu Gly Phe
 1 5 10 15
 Gln Ile Arg Gly Phe Gly Pro Ser Val Val His Ala Val Gly Arg Gly
 20 25 30
 Thr Val Ala Ala Ala Gly Leu His Pro Gly Gln Cys Ile Ile Lys
 35 40 45
 Val Asn Gly Ile Asn Val Ser Lys Glu Thr His Ala Ser Val Ile Ala
 50 55 60
 His Val Thr Ala Cys Arg Lys Tyr Arg Arg Pro Thr Lys Gln Asp Ser
 65 70 75 80
 Ile Gln

<210> 58
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 58
 Glu Asp Phe Cys Tyr Val Phe Thr Val Glu Leu Glu Arg Gly Pro Ser
 1 5 10 15
 Gly Leu Gly Met Gly Leu Ile Asp Gly Met His Thr His Leu Gly Ala
 20 25 30
 Pro Gly Leu Tyr Ile Gln Thr Leu Leu Pro Gly Ser Pro Ala Ala Ala
 35 40 45
 Asp Gly Arg Leu Ser Leu Gly Asp Arg Ile Leu Glu Val Asn Gly Ser

50		55		60											
Ser	Leu	Leu	Gly	Leu	Gly	Tyr	Leu	Arg	Ala	Val	Asp	Leu	Ile	Arg	His
65				70						75				80	
Gly	Gly	Lys	Lys	Met	Arg	Phe	Leu	Val	Ala	Lys	Ser	Asp	Val	Glu	Thr
			85						90					95	
Ala	Lys	Lys	Ile												
			100												

<210> 59
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 59

Leu	Thr	Glu	Phe	Gln	Asp	Lys	Gln	Ile	Lys	Asp	Trp	Lys	Lys	Arg	Phe
1				5					10					15	
Ile	Gly	Ile	Arg	Met	Arg	Thr	Ile	Thr	Pro	Ser	Leu	Val	Asp	Glu	Leu
			20					25					30		
Lys	Ala	Ser	Asn	Pro	Asp	Phe	Pro	Glu	Val	Ser	Ser	Gly	Ile	Tyr	Val
		35					40					45			
Gln	Glu	Val	Ala	Pro	Asn	Ser	Pro	Ser	Gln	Arg	Gly	Gly	Ile	Gln	Asp
		50				55					60				
Gly	Asp	Ile	Ile	Val	Lys	Val	Asn	Gly	Arg	Pro	Leu	Val	Asp	Ser	Ser
65					70				75					80	
Glu	Leu	Gln	Glu	Ala	Val	Leu	Thr	Glu	Ser	Pro	Leu	Leu	Leu	Glu	Val
			85					90						95	
Arg	Arg	Gly	Asn	Asp	Asp	Leu	Leu	Phe	Ser	Asn	Ser	Ser			
			100					105							

<210> 60
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 60

His	Lys	Lys	Tyr	Leu	Gly	Leu	Gln	Met	Leu	Ser	Leu	Thr	Val	Pro	Leu
1				5					10					15	
Ser	Glu	Glu	Leu	Lys	Met	His	Tyr	Pro	Asp	Phe	Pro	Asp	Val	Ser	Ser
			20					25					30		
Gly	Val	Tyr	Val	Cys	Lys	Val	Val	Glu	Gly	Thr	Ala	Ala	Gln	Ser	Ser
		35					40					45			
Gly	Leu	Arg	Asp	His	Asp	Val	Ile	Val	Asn	Ile	Asn	Gly	Lys	Pro	Ile
		50				55					60				
Thr	Thr	Thr	Thr	Asp	Val	Val	Lys	Ala	Leu	Asp	Ser	Asp	Ser	Leu	Ser
65					70				75					80	
Met	Ala	Val	Leu	Arg	Gly	Lys	Asp	Asn	Leu	Leu	Leu	Thr	Val	Asn	Ser
			85					90						95	
Ser															

<210> 61
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 61

Ile	Trp	Gln	Ile	Glu	Tyr	Ile	Asp	Ile	Glu	Arg	Pro	Ser	Thr	Gly	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1		5		10		15									
Leu	Gly	Phe	Ser	Val	Val	Ala	Leu	Arg	Ser	Gln	Asn	Leu	Gly	Lys	Val
		20		25		30									
Asp	Ile	Phe	Val	Lys	Asp	Val	Gln	Pro	Gly	Ser	Val	Ala	Asp	Arg	Asp
	35			40		45									
Gln	Arg	Leu	Lys	Glu	Asn	Asp	Gln	Ile	Leu	Ala	Ile	Asn	His	Thr	Pro
	50			55		60									
Leu	Asp	Gln	Asn	Ile	Ser	His	Gln	Gln	Ala	Ile	Ala	Leu	Leu	Gln	Gln
65				70		75									80
Thr	Thr	Gly	Ser	Leu	Arg	Leu	Ile	Val	Ala	Arg	Glu	Pro	Val	His	Thr
			85			90								95	
Lys	Ser	Ser	Thr	Ser	Ser	Ser	Glu								
			100												

<210> 62
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 62
Pro Gly His Val Glu Glu Val Glu Leu Ile Asn Asp Gly Ser Gly Leu
1 5 10 15
Gly Phe Gly Ile Val Gly Gly Lys Thr Ser Gly Val Val Val Arg Thr
20 25 30
Ile Val Pro Gly Gly Leu Ala Asp Arg Asp Gly Arg Leu Gln Thr Gly
35 40 45
Asp His Ile Leu Lys Ile Gly Gly Thr Asn Val Gln Gly Met Thr Ser
50 55 60
Glu Gln Val Ala Gln Val Leu Arg Asn Cys Gly Asn Ser Ser
65 70 75

<210> 63
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 63
Pro Gly Ser Asp Ser Ser Leu Phe Glu Thr Tyr Asn Val Glu Leu Val
1 5 10 15
Arg Lys Asp Gly Gln Ser Leu Gly Ile Arg Ile Val Gly Tyr Val Gly
20 25 30
Thr Ser His Thr Gly Glu Ala Ser Gly Ile Tyr Val Lys Ser Ile Ile
35 40 45
Pro Gly Ser Ala Ala Tyr His Asn Gly His Ile Gln Val Asn Asp Lys
50 55 60
Ile Val Ala Val Asp Gly Val Asn Ile Gln Gly Phe Ala Asn His Asp
65 70 75 80
Val Val Glu Val Leu Arg Asn Ala Gly Gln Val Val His Leu Thr Leu
85 90 95
Val Arg Arg Lys Thr Ser Ser Ser Thr Ser Arg Ile His Arg Asp
100 105 110

<210> 64
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 64

```
Asn Ser Asp Asp Ala Glu Leu Gln Lys Tyr Ser Lys Leu Leu Pro Ile
 1          5          10          15
His Thr Leu Arg Leu Gly Val Glu Val Asp Ser Phe Asp Gly His His
          20          25          30
Tyr Ile Ser Ser Ile Val Ser Gly Gly Pro Val Asp Thr Leu Gly Leu
          35          40          45
Leu Gln Pro Glu Asp Glu Leu Leu Glu Val Asn Gly Met Gln Leu Tyr
          50          55          60
Gly Lys Ser Arg Arg Glu Ala Val Ser Phe Leu Lys Glu Val Pro Pro
65          70          75          80
Pro Phe Thr Leu Val Cys Cys Arg Arg Leu Phe Asp Asp Glu Ala Ser
          85          90          95
```

<210> 65

<211> 102

<212> PRT

<213> Homo sapiens

<400> 65

```
Leu Ser Ser Pro Glu Val Lys Ile Val Glu Leu Val Lys Asp Cys Lys
 1          5          10          15
Gly Leu Gly Phe Ser Ile Leu Asp Tyr Gln Asp Pro Leu Asp Pro Thr
          20          25          30
Arg Ser Val Ile Val Ile Arg Ser Leu Val Ala Asp Gly Val Ala Glu
          35          40          45
Arg Ser Gly Gly Leu Leu Pro Gly Asp Arg Leu Val Ser Val Asn Glu
          50          55          60
Tyr Cys Leu Asp Asn Thr Ser Leu Ala Glu Ala Val Glu Ile Leu Lys
65          70          75          80
Ala Val Pro Pro Gly Leu Val His Leu Gly Ile Cys Lys Pro Leu Val
          85          90          95
Glu Phe Ile Val Thr Asp
          100
```

<210> 66

<211> 119

<212> PRT

<213> Homo sapiens

<400> 66

```
Pro Asn Phe Ser His Trp Gly Pro Pro Arg Ile Val Glu Ile Phe Arg
 1          5          10          15
Glu Pro Asn Val Ser Leu Gly Ile Ser Ile Val Val Gly Gln Thr Val
          20          25          30
Ile Lys Arg Leu Lys Asn Gly Glu Glu Leu Lys Gly Ile Phe Ile Lys
          35          40          45
Gln Val Leu Glu Asp Ser Pro Ala Gly Lys Thr Asn Ala Leu Lys Thr
          50          55          60
Gly Asp Lys Ile Leu Glu Val Ser Gly Val Asp Leu Gln Asn Ala Ser
65          70          75          80
His Ser Glu Ala Val Glu Ala Ile Lys Asn Ala Gly Asn Pro Val Val
          85          90          95
Phe Ile Val Gln Ser Leu Ser Ser Thr Pro Arg Val Ile Pro Asn Val
          100          105          110
His Asn Lys Ala Asn Ser Ser
          115
```


<210> 67
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 67
 Pro Gly Glu Leu His Ile Ile Glu Leu Glu Lys Asp Lys Asn Gly Leu
 1 5 10 15
 Gly Leu Ser Leu Ala Gly Asn Lys Asp Arg Ser Arg Met Ser Ile Phe
 20 25 30
 Val Val Gly Ile Asn Pro Glu Gly Pro Ala Ala Ala Asp Gly Arg Met
 35 40 45
 Arg Ile Gly Asp Glu Leu Leu Glu Ile Asn Asn Gln Ile Leu Tyr Gly
 50 55 60
 Arg Ser His Gln Asn Ala Ser Ala Ile Ile Lys Thr Ala Pro Ser Lys
 65 70 75 80
 Val Lys Leu Val Phe Ile Arg Asn Glu Asp Ala Val Asn Gln Met Ala
 85 90 95
 Asn Ser Ser

<210> 68
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 68
 Pro Ala Thr Cys Pro Ile Val Pro Gly Gln Glu Met Ile Ile Glu Ile
 1 5 10 15
 Ser Lys Gly Arg Ser Gly Leu Gly Leu Ser Ile Val Gly Gly Lys Asp
 20 25 30
 Thr Pro Leu Asn Ala Ile Val Ile His Glu Val Tyr Glu Gly Ala
 35 40 45
 Ala Ala Arg Asp Gly Arg Leu Trp Ala Gly Asp Gln Ile Leu Glu Val
 50 55 60
 Asn Gly Val Asp Leu Arg Asn Ser Ser His Glu Glu Ala Ile Thr Ala
 65 70 75 80
 Leu Arg Gln Thr Pro Gln Lys Val Arg Leu Val Val Tyr
 85 90

<210> 69
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 69
 Ile Leu Thr Leu Thr Ile Leu Arg Gln Thr Gly Gly Leu Gly Ile Ser
 1 5 10 15
 Ile Ala Gly Gly Lys Gly Ser Thr Pro Tyr Lys Gly Asp Asp Glu Gly
 20 25 30
 Ile Phe Ile Ser Arg Val Ser Glu Gly Pro Ala Ala Arg Ala Gly
 35 40 45
 Val Arg Val Gly Asp Lys Leu Leu Glu Val Asn Gly Val Ala Leu Gln
 50 55 60
 Gly Ala Glu His His Glu Ala Val Glu Ala Leu Arg Gly Ala Gly Thr
 65 70 75 80
 Ala Val Gln Met Arg Val Trp Arg Glu Arg Met Val Glu Pro Glu Asn

85
Ala Glu Phe Ile Val Thr Asp
100

90

95

<210> 70
<211> 97
<212> PRT
<213> Homo sapiens

<400> 70
Pro Leu Arg Gln Arg His Val Ala Cys Leu Ala Arg Ser Glu Arg Gly
1 5 10 15
Leu Gly Phe Ser Ile Ala Gly Gly Lys Gly Ser Thr Pro Tyr Arg Ala
20 25 30
Gly Asp Ala Gly Ile Phe Val Ser Arg Ile Ala Glu Gly Gly Ala Ala
35 40 45
His Arg Ala Gly Thr Leu Gln Val Gly Asp Arg Val Leu Ser Ile Asn
50 55 60
Gly Val Asp Val Thr Glu Ala Arg His Asp His Ala Val Ser Leu Leu
65 70 75 80
Thr Ala Ala Ser Pro Thr Ile Ala Leu Leu Glu Arg Glu Ala Gly
85 90 95
Gly

<210> 71
<211> 106
<212> PRT
<213> Homo sapiens

<400> 71
Ile Leu Glu Gly Pro Tyr Pro Val Glu Glu Ile Arg Leu Pro Arg Ala
1 5 10 15
Gly Gly Pro Leu Gly Leu Ser Ile Val Gly Gly Ser Asp His Ser Ser
20 25 30
His Pro Phe Gly Val Gln Glu Pro Gly Val Phe Ile Ser Lys Val Leu
35 40 45
Pro Arg Gly Leu Ala Ala Arg Ser Gly Leu Arg Val Gly Asp Arg Ile
50 55 60
Leu Ala Val Asn Gly Gln Asp Val Arg Asp Ala Thr His Gln Glu Ala
65 70 75 80
Val Ser Ala Leu Leu Arg Pro Cys Leu Glu Leu Ser Leu Leu Val Arg
85 90 95
Arg Asp Pro Ala Glu Phe Ile Val Thr Asp
100 105

<210> 72
<211> 105
<212> PRT
<213> Homo sapiens

<400> 72
Arg Glu Leu Cys Ile Gln Lys Ala Pro Gly Glu Arg Leu Gly Ile Ser
1 5 10 15
Ile Arg Gly Gly Ala Arg Gly His Ala Gly Asn Pro Arg Asp Pro Thr
20 25 30
Asp Glu Gly Ile Phe Ile Ser Lys Val Ser Pro Thr Gly Ala Ala Gly

1				5					10					15			
Gly	Phe	Gly	Phe	Val	Ala	Gly	Ser	Glu	Lys	Pro	Val	Val	Val	Arg	Ser		
			20					25					30				
Val	Thr	Pro	Gly	Gly	Pro	Ser	Glu	Gly	Lys	Leu	Ile	Pro	Gly	Asp	Gln		
		35					40					45					
Ile	Val	Met	Ile	Asn	Asp	Glu	Pro	Val	Ser	Ala	Ala	Pro	Arg	Glu	Arg		
	50					55					60						
Val	Ile	Asp	Leu	Val	Arg	Ser	Cys	Lys	Glu	Ser	Ile	Leu	Leu	Thr	Val		
65					70					75					80		
Ile	Gln	Pro	Tyr	Pro	Ser	Pro	Lys										
				85													

<210> 76
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 76

Leu	Asn	Lys	Arg	Thr	Thr	Met	Pro	Lys	Asp	Ser	Gly	Ala	Leu	Leu	Gly		
1				5					10					15			
Leu	Lys	Val	Val	Gly	Gly	Lys	Met	Thr	Asp	Leu	Gly	Arg	Leu	Gly	Ala		
		20						25					30				
Phe	Ile	Thr	Lys	Val	Lys	Lys	Gly	Ser	Leu	Ala	Asp	Val	Val	Gly	His		
		35					40				45						
Leu	Arg	Ala	Gly	Asp	Glu	Val	Leu	Glu	Trp	Asn	Gly	Lys	Pro	Leu	Pro		
	50				55					60							
Gly	Ala	Thr	Asn	Glu	Glu	Val	Tyr	Asn	Ile	Ile	Leu	Glu	Ser	Lys	Ser		
65				70					75					80			
Glu	Pro	Gln	Val	Glu	Ile	Ile	Val	Ser	Arg	Pro	Ile	Gly	Asp	Ile	Pro		
				85				90					95				
Arg	Ile	His	Arg	Asp													
			100														

<210> 77
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 77

Gln	Arg	Cys	Val	Ile	Ile	Gln	Lys	Asp	Gln	His	Gly	Phe	Gly	Phe	Thr		
1				5				10						15			
Val	Ser	Gly	Asp	Arg	Ile	Val	Leu	Val	Gln	Ser	Val	Arg	Pro	Gly	Gly		
		20						25				30					
Ala	Ala	Met	Lys	Ala	Gly	Val	Lys	Glu	Gly	Asp	Arg	Ile	Ile	Lys	Val		
		35					40				45						
Asn	Gly	Thr	Met	Val	Thr	Asn	Ser	Ser	His	Leu	Glu	Val	Val	Lys	Leu		
	50				55					60							
Ile	Lys	Ser	Gly	Ala	Tyr	Val	Ala	Leu	Thr	Leu	Leu	Gly	Ser	Ser			
65				70					75								

<210> 78
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 78

Ile	Leu	Val	Gln	Arg	Cys	Val	Ile	Ile	Gln	Lys	Asp	Asp	Asn	Gly	Phe		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	--	--

1				5					10					15		
Gly	Leu	Thr	Val	Ser	Gly	Asp	Asn	Pro	Val	Phe	Val	Gln	Ser	Val	Lys	
			20					25					30			
Glu	Asp	Gly	Ala	Ala	Met	Arg	Ala	Gly	Val	Gln	Thr	Gly	Asp	Arg	Ile	
		35					40					45				
Ile	Lys	Val	Asn	Gly	Thr	Leu	Val	Thr	His	Ser	Asn	His	Leu	Glu	Val	
		50				55					60					
Val	Lys	Leu	Ile	Lys	Ser	Gly	Ser	Tyr	Val	Ala	Leu	Thr	Val	Gln	Gly	
65					70					75					80	
Arg	Pro	Pro	Gly	Asn	Ser	Ser										
				85												

<210> 79
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 79																
Ser	Val	Glu	Met	Thr	Leu	Arg	Arg	Asn	Gly	Leu	Gly	Gln	Leu	Gly	Phe	
1				5					10					15		
His	Val	Asn	Tyr	Glu	Gly	Ile	Val	Ala	Asp	Val	Glu	Pro	Tyr	Gly	Tyr	
		20						25				30				
Ala	Trp	Gln	Ala	Gly	Leu	Arg	Gln	Gly	Ser	Arg	Leu	Val	Glu	Ile	Cys	
		35					40				45					
Lys	Val	Ala	Val	Ala	Thr	Leu	Ser	His	Glu	Gln	Met	Ile	Asp	Leu	Leu	
	50					55					60					
Arg	Thr	Ser	Val	Thr	Val	Lys	Val	Val	Ile	Ile	Pro	Pro	His	Asp		
65					70					75						

<210> 80
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 80																
Leu	Lys	Val	Met	Thr	Ser	Gly	Trp	Glu	Thr	Val	Asp	Met	Thr	Leu	Arg	
1				5					10					15		
Arg	Asn	Gly	Leu	Gly	Gln	Leu	Gly	Phe	His	Val	Lys	Tyr	Asp	Gly	Thr	
		20						25				30				
Val	Ala	Glu	Val	Glu	Asp	Tyr	Gly	Phe	Ala	Trp	Gln	Ala	Gly	Leu	Arg	
		35					40				45					
Gln	Gly	Ser	Arg	Leu	Val	Glu	Ile	Cys	Lys	Val	Ala	Val	Val	Thr	Leu	
	50					55					60					
Thr	His	Asp	Gln	Met	Ile	Asp	Leu	Leu	Arg	Thr	Ser	Val	Thr	Val	Lys	
65					70					75					80	
Val	Val	Ile	Ile	Pro	Pro	Phe	Glu	Asp	Gly	Thr	Pro	Arg	Arg	Gly	Trp	
				85					90					95		

<210> 81
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 81																
His	Tyr	Ile	Phe	Pro	His	Ala	Arg	Ile	Lys	Ile	Thr	Arg	Asp	Ser	Lys	
1				5					10					15		
Asp	His	Thr	Val	Ser	Gly	Asn	Gly	Leu	Gly	Ile	Arg	Ile	Val	Gly	Gly	

<400> 84

```
Ile Ser Arg Asp Ser Gly Ala Met Leu Gly Leu Lys Val Val Gly Gly
 1          5          10          15
Lys Met Thr Glu Ser Gly Arg Leu Cys Ala Phe Ile Thr Lys Val Lys
          20          25          30
Lys Gly Ser Leu Ala Asp Thr Val Gly His Leu Arg Pro Gly Asp Glu
          35          40          45
Val Leu Glu Trp Asn Gly Arg Leu Leu Gln Gly Ala Thr Phe Glu Glu
          50          55          60
Val Tyr Asn Ile Ile Leu Glu Ser Lys Pro Glu Pro Gln Val Glu Leu
65          70          75          80
Val Val Ser Arg Pro Ile Ala Ile His Arg Asp
          85          90
```

<210> 85

<211> 101

<212> PRT

<213> Homo sapiens

<400> 85

```
Ile Ser Ala Leu Gly Ser Met Arg Pro Pro Ile Ile Ile His Arg Ala
 1          5          10          15
Gly Lys Lys Tyr Gly Phe Thr Leu Arg Ala Ile Arg Val Tyr Met Gly
          20          25          30
Asp Ser Asp Val Tyr Thr Val His His Met Val Trp His Val Glu Asp
          35          40          45
Gly Gly Pro Ala Ser Glu Ala Gly Leu Arg Gln Gly Asp Leu Ile Thr
          50          55          60
His Val Asn Gly Glu Pro Val His Gly Leu Val His Thr Glu Val Val
65          70          75          80
Glu Leu Ile Leu Lys Ser Gly Asn Lys Val Ala Ile Ser Thr Thr Pro
          85          90          95
Leu Glu Asn Ser Ser
          100
```

<210> 86

<211> 94

<212> PRT

<213> Homo sapiens

<400> 86

```
Phe Ser Asp Met Arg Ile Ser Ile Asn Gln Thr Pro Gly Lys Ser Leu
 1          5          10          15
Asp Phe Gly Phe Thr Ile Lys Trp Asp Ile Pro Gly Ile Phe Val Ala
          20          25          30
Ser Val Glu Ala Gly Ser Pro Ala Glu Phe Ser Gln Leu Gln Val Asp
          35          40          45
Asp Glu Ile Ile Ala Ile Asn Asn Thr Lys Phe Ser Tyr Asn Asp Ser
          50          55          60
Lys Glu Trp Glu Glu Ala Met Ala Lys Ala Gln Glu Thr Gly His Leu
65          70          75          80
Val Met Asp Val Arg Arg Tyr Gly Lys Ala Gly Ser Pro Glu
          85          90
```

<210> 87

<211> 98

<212> PRT

<213> Homo sapiens

<400> 87

Gln Ser Ala His Leu Glu Val Ile Gln Leu Ala Asn Ile Lys Pro Ser
1 5 10 15
Glu Gly Leu Gly Met Tyr Ile Lys Ser Thr Tyr Asp Gly Leu His Val
20 25 30
Ile Thr Gly Thr Thr Glu Asn Ser Pro Ala Asp Arg Cys Lys Lys Ile
35 40 45
His Ala Gly Asp Glu Val Ile Gln Val Asn His Gln Thr Val Val Gly
50 55 60
Trp Gln Leu Lys Asn Leu Val Asn Ala Leu Arg Glu Asp Pro Ser Gly
65 70 75 80
Val Ile Leu Thr Leu Lys Lys Arg Pro Gln Ser Met Leu Thr Ser Ala
85 90 95
Pro Ala

<210> 88

<211> 100

<212> PRT

<213> Homo sapiens

<400> 88

Ile Leu Thr Gln Thr Leu Ile Pro Val Arg His Thr Val Lys Ile Asp
1 5 10 15
Lys Asp Thr Leu Leu Gln Asp Tyr Gly Phe His Ile Ser Glu Ser Leu
20 25 30
Pro Leu Thr Val Val Ala Val Thr Ala Gly Gly Ser Ala His Gly Lys
35 40 45
Leu Phe Pro Gly Asp Gln Ile Leu Gln Met Asn Asn Glu Pro Ala Glu
50 55 60
Asp Leu Ser Trp Glu Arg Ala Val Asp Ile Leu Arg Glu Ala Glu Asp
65 70 75 80
Ser Leu Ser Ile Thr Val Val Arg Cys Thr Ser Gly Val Pro Lys Ser
85 90 95
Ser Asn Ser Ser
100

<210> 89

<211> 93

<212> PRT

<213> Homo sapiens

<400> 89

Gly Leu Arg Ser Pro Ile Thr Ile Gln Arg Ser Gly Lys Lys Tyr Gly
1 5 10 15
Phe Thr Leu Arg Ala Ile Arg Val Tyr Met Gly Asp Thr Asp Val Tyr
20 25 30
Ser Val His His Ile Val Trp His Val Glu Glu Gly Gly Pro Ala Gln
35 40 45
Glu Ala Gly Leu Cys Ala Gly Asp Leu Ile Thr His Val Asn Gly Glu
50 55 60
Pro Val His Gly Met Val His Pro Glu Val Val Glu Leu Ile Leu Lys
65 70 75 80
Ser Gly Asn Lys Val Ala Val Thr Thr Thr Pro Phe Glu
85 90

<210> 90
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 90
 Gln Gly Glu Glu Thr Lys Ser Leu Thr Leu Val Leu His Arg Asp Ser
 1 5 10 15
 Gly Ser Leu Gly Phe Asn Ile Ile Gly Gly Arg Pro Ser Val Asp Asn
 20 25 30
 His Asp Gly Ser Ser Ser Glu Gly Ile Phe Val Ser Lys Ile Val Asp
 35 40 45
 Ser Gly Pro Ala Ala Lys Glu Gly Gly Leu Gln Ile His Asp Arg Ile
 50 55 60
 Ile Glu Val Asn Gly Arg Asp Leu Ser Arg Ala Thr His Asp Gln Ala
 65 70 75 80
 Val Glu Ala Phe Lys Thr Ala Lys Glu Pro Ile Val Val Gln Val Leu
 85 90 95
 Arg Arg Thr Pro Arg Thr Lys Met Phe Thr Pro
 100 105

<210> 91
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 91
 Gln Glu Met Asp Arg Glu Glu Leu Glu Leu Glu Glu Val Asp Leu Tyr
 1 5 10 15
 Arg Met Asn Ser Gln Asp Lys Leu Gly Leu Thr Val Cys Tyr Arg Thr
 20 25 30
 Asp Asp Glu Asp Asp Ile Gly Ile Tyr Ile Ser Glu Ile Asp Pro Asn
 35 40 45
 Ser Ile Ala Ala Lys Asp Gly Arg Ile Arg Glu Gly Asp Arg Ile Ile
 50 55 60
 Gln Ile Asn Gly Ile Glu Val Gln Asn Arg Glu Glu Ala Val Ala Leu
 65 70 75 80
 Leu Thr Ser Glu Glu Asn Lys Asn Phe Ser Leu Leu Ile Ala Arg Pro
 85 90 95
 Glu Leu Gln Leu Asp
 100

<210> 92
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 92
 Arg Ser Phe Gln Tyr Val Pro Val Gln Leu Gln Gly Gly Ala Pro Trp
 1 5 10 15
 Gly Phe Thr Leu Lys Gly Gly Leu Glu His Cys Glu Pro Leu Thr Val
 20 25 30
 Ser Lys Ile Glu Asp Gly Gly Lys Ala Ala Leu Ser Gln Lys Met Arg
 35 40 45
 Thr Gly Asp Glu Leu Val Asn Ile Asn Gly Thr Pro Leu Tyr Gly Ser
 50 55 60
 Arg Gln Glu Ala Leu Ile Leu Ile Lys Gly Ser Phe Arg Ile Leu Lys

20 25 30
 Glu Pro Phe Gly Phe Ala Trp Lys Ala Gly Leu Arg Gln Gly Ser Arg
 35 40 45
 Leu Val Glu Ile Cys Lys Val Ala Val Ala Thr Leu Thr His Glu Gln
 50 55 60
 Met Ile Asp Leu Leu Arg Thr Ser Val Thr Val Lys Val Val Ile Ile
 65 70 75 80
 Gln Pro His Asp Asp Gly Ser Pro Arg Arg
 85 90

<210> 96
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 96
 Val Glu Asn Ile Leu Ala Lys Arg Leu Leu Ile Leu Pro Gln Glu Glu
 1 5 10 15
 Asp Tyr Gly Phe Asp Ile Glu Glu Lys Asn Lys Ala Val Val Val Lys
 20 25 30
 Ser Val Gln Arg Gly Ser Leu Ala Glu Val Ala Gly Leu Gln Val Gly
 35 40 45
 Arg Lys Ile Tyr Ser Ile Asn Glu Asp Leu Val Phe Leu Arg Pro Phe
 50 55 60
 Ser Glu Val Glu Ser Ile Leu Asn Gln Ser Phe Cys Ser Arg Arg Pro
 65 70 75 80
 Leu Arg Leu Leu Val Ala Thr Lys Ala Lys Glu Ile Ile Lys Ile Pro
 85 90 95

<210> 97
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 97
 Pro Asp Ser Ala Gly Pro Gly Glu Val Arg Leu Val Ser Leu Arg Arg
 1 5 10 15
 Ala Lys Ala His Glu Gly Leu Gly Phe Ser Ile Arg Gly Gly Ser Glu
 20 25 30
 His Gly Val Gly Ile Tyr Val Ser Leu Val Glu Pro Gly Ser Leu Ala
 35 40 45
 Glu Lys Glu Gly Leu Arg Val Gly Asp Gln Ile Leu Arg Val Asn Asp
 50 55 60
 Lys Ser Leu Ala Arg Val Thr His Ala Glu Ala Val Lys Ala Leu Lys
 65 70 75 80
 Gly Ser Lys Lys Leu Val Leu Ser Val Tyr Ser Ala Gly Arg Ile Pro
 85 90 95
 Gly Gly Tyr Val Thr Asn His
 100

<210> 98
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 98
 Leu Gln Gly Gly Asp Glu Lys Lys Val Asn Leu Val Leu Gly Asp Gly

1				5					10				15			
Arg	Ser	Leu	Gly	Leu	Thr	Ile	Arg	Gly	Gly	Ala	Glu	Tyr	Gly	Leu	Gly	
			20					25					30			
Ile	Tyr	Ile	Thr	Gly	Val	Asp	Pro	Gly	Ser	Glu	Ala	Glu	Gly	Ser	Gly	
		35					40					45				
Leu	Lys	Val	Gly	Asp	Gln	Ile	Leu	Glu	Val	Asn	Trp	Arg	Ser	Phe	Leu	
	50					55				60						
Asn	Ile	Leu	His	Asp	Glu	Ala	Val	Arg	Leu	Leu	Lys	Ser	Ser	Arg	His	
65					70				75						80	
Leu	Ile	Leu	Thr	Val	Lys	Asp	Val	Gly	Arg	Leu	Pro	His	Ala	Arg	Thr	
				85				90						95		
Thr	Val	Asp	Glu													
			100													

<210> 99
 <211> 87
 <212> PRT
 <213> Homo sapiens

Trp	Thr	Ser	Gly	Ala	His	Val	His	Ser	Gly	Pro	Cys	Glu	Glu	Lys	Cys	
1				5					10					15		
Gly	His	Pro	Gly	His	Arg	Gln	Pro	Leu	Pro	Arg	Ile	Val	Thr	Ile	Gln	
			20					25					30			
Arg	Gly	Gly	Ser	Ala	His	Asn	Cys	Gly	Gln	Leu	Lys	Val	Gly	His	Val	
		35				40					45					
Ile	Leu	Glu	Val	Asn	Gly	Leu	Thr	Leu	Arg	Gly	Lys	Glu	His	Arg	Glu	
	50				55					60						
Ala	Ala	Arg	Ile	Ile	Ala	Glu	Ala	Phe	Lys	Thr	Lys	Asp	Arg	Asp	Tyr	
65				70					75						80	
Ile	Asp	Phe	Leu	Asp	Ser	Leu										
				85												

<210> 100
 <211> 100
 <212> PRT
 <213> Homo sapiens

Glu	Leu	Arg	Arg	Ala	Glu	Leu	Val	Glu	Ile	Ile	Val	Glu	Thr	Glu	Ala	
1				5					10					15		
Gln	Thr	Gly	Val	Ser	Gly	Ile	Asn	Val	Ala	Gly	Gly	Gly	Lys	Glu	Gly	
			20					25					30			
Ile	Phe	Val	Arg	Glu	Leu	Arg	Glu	Asp	Ser	Pro	Ala	Ala	Arg	Ser	Leu	
		35				40					45					
Ser	Leu	Gln	Glu	Gly	Asp	Gln	Leu	Leu	Ser	Ala	Arg	Val	Phe	Phe	Glu	
	50				55					60						
Asn	Phe	Lys	Tyr	Glu	Asp	Ala	Leu	Arg	Leu	Leu	Gln	Cys	Ala	Glu	Pro	
65				70					75						80	
Tyr	Lys	Val	Ser	Phe	Cys	Leu	Lys	Arg	Thr	Val	Pro	Thr	Gly	Asp	Leu	
				85				90						95		
Ala	Leu	Arg	Pro													
			100													

<210> 101
 <211> 102
 <212> PRT

<213> Homo sapiens

<400> 101

```
Pro Ser Gln Leu Lys Gly Val Leu Val Arg Ala Ser Leu Lys Lys Ser
 1          5          10          15
Thr Met Gly Phe Gly Phe Thr Ile Ile Gly Gly Asp Arg Pro Asp Glu
          20          25          30
Phe Leu Gln Val Lys Asn Val Leu Lys Asp Gly Pro Ala Ala Gln Asp
          35          40          45
Gly Lys Ile Ala Pro Gly Asp Val Ile Val Asp Ile Asn Gly Asn Cys
          50          55          60
Val Leu Gly His Thr His Ala Asp Val Val Gln Met Phe Gln Leu Val
65          70          75          80
Pro Val Asn Gln Tyr Val Asn Leu Thr Leu Cys Arg Gly Tyr Pro Leu
          85          90          95
Pro Asp Asp Ser Glu Asp
          100
```

<210> 102

<211> 100

<212> PRT

<213> Homo sapiens

<400> 102

```
Ala Ser Ser Gly Ser Ser Gln Pro Glu Leu Val Thr Ile Pro Leu Ile
 1          5          10          15
Lys Gly Pro Lys Gly Phe Gly Phe Ala Ile Ala Asp Ser Pro Thr Gly
          20          25          30
Gln Lys Val Lys Met Ile Leu Asp Ser Gln Trp Cys Gln Gly Leu Gln
          35          40          45
Lys Gly Asp Ile Ile Lys Glu Ile Tyr His Gln Asn Val Gln Asn Leu
          50          55          60
Thr His Leu Gln Val Val Glu Val Leu Lys Gln Phe Pro Val Gly Ala
65          70          75          80
Asp Val Pro Leu Leu Ile Leu Arg Gly Gly Pro Pro Ser Pro Thr Lys
          85          90          95
Thr Ala Lys Met
          100
```

<210> 103

<211> 143

<212> PRT

<213> Homo sapiens

<400> 103

```
Leu Tyr Glu Asp Lys Pro Pro Leu Thr Asn Thr Phe Leu Ile Ser Asn
 1          5          10          15
Pro Arg Thr Thr Ala Asp Pro Arg Ile Leu Tyr Glu Asp Lys Pro Pro
          20          25          30
Asn Thr Lys Asp Leu Asp Val Phe Leu Arg Lys Gln Glu Ser Gly Phe
          35          40          45
Gly Phe Arg Val Leu Gly Gly Asp Gly Pro Asp Gln Ser Ile Tyr Ile
          50          55          60
Gly Ala Ile Ile Pro Leu Gly Ala Ala Glu Lys Asp Gly Arg Leu Arg
65          70          75          80
Ala Ala Asp Glu Leu Met Cys Ile Asp Gly Ile Pro Val Lys Gly Lys
          85          90          95
Ser His Lys Gln Val Leu Asp Leu Met Thr Thr Ala Ala Arg Asn Gly
```

	100		105		110									
His	Val	Leu	Thr	Val	Arg	Arg	Lys	Ile	Phe	Tyr	Gly	Glu	Lys	Gln
	115				120						125			
Pro	Glu	Asp	Asp	Ser	Gly	Ser	Pro	Gly	Ile	His	Arg	Glu	Leu	Thr
	130				135						140			

<210> 104
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 104

Pro	Ala	Pro	Gln	Glu	Pro	Tyr	Asp	Val	Val	Leu	Gln	Arg	Lys	Glu	Asn
1			5					10					15		
Glu	Gly	Phe	Gly	Phe	Val	Ile	Leu	Thr	Ser	Lys	Asn	Lys	Pro	Pro	Pro
		20				25						30			
Gly	Val	Ile	Pro	His	Lys	Ile	Gly	Arg	Val	Ile	Glu	Gly	Ser	Pro	Ala
	35					40					45				
Asp	Arg	Cys	Gly	Lys	Leu	Lys	Val	Gly	Asp	His	Ile	Ser	Ala	Val	Asn
	50				55					60					
Gly	Gln	Ser	Ile	Val	Glu	Leu	Ser	His	Asp	Asn	Ile	Val	Gln	Leu	Ile
65				70					75					80	
Lys	Asp	Ala	Gly	Val	Thr	Val	Thr	Leu	Thr	Val	Ile	Ala	Glu	Glu	Glu
			85				90						95		
His	His	Gly	Pro	Pro	Ser										
			100												

<210> 105
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 105

Gln	Asn	Leu	Gly	Cys	Tyr	Pro	Val	Glu	Leu	Glu	Arg	Gly	Pro	Arg	Gly
1			5					10					15		
Phe	Gly	Phe	Ser	Leu	Arg	Gly	Gly	Lys	Glu	Tyr	Asn	Met	Gly	Leu	Phe
		20					25					30			
Ile	Leu	Arg	Leu	Ala	Glu	Asp	Gly	Pro	Ala	Ile	Lys	Asp	Gly	Arg	Ile
	35					40					45				
His	Val	Gly	Asp	Gln	Ile	Val	Glu	Ile	Asn	Gly	Glu	Pro	Thr	Gln	Gly
	50				55				60						
Ile	Thr	His	Thr	Arg	Ala	Ile	Glu	Leu	Ile	Gln	Ala	Gly	Gly	Asn	Lys
65				70				75						80	
Val	Leu	Leu	Leu	Leu	Arg	Pro	Gly	Thr	Gly	Leu	Ile	Pro	Asp	His	Gly
			85				90						95		
Leu	Ala														

<210> 106
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 106

Ile	Thr	Val	Val	Glu	Leu	Ile	Lys	Lys	Glu	Gly	Ser	Thr	Leu	Gly	Leu
1			5					10					15		
Thr	Ile	Ser	Gly	Gly	Thr	Asp	Lys	Asp	Gly	Lys	Pro	Arg	Val	Ser	Asn


```

1           5           10           15
Pro Leu Ser Gly Phe Gly Leu Gln Leu Gln Gly Gly Ile Phe Ala Thr
20           25           30
Glu Thr Leu Ser Ser Pro Pro Leu Val Cys Phe Ile Glu Pro Asp Ser
35           40           45
Pro Ala Glu Arg Cys Gly Leu Leu Gln Val Gly Asp Arg Val Leu Ser
50           55           60
Ile Asn Gly Ile Ala Thr Glu Asp Gly Thr Met Glu Glu Ala Asn Gln
65           70           75           80
Leu Leu Arg Asp Ala Ala Leu Ala His Lys Val Val Leu Glu Val Glu
85           90           95
Phe Asp Val Ala Glu Ser Val
100

```

<210> 110
 <211> 103
 <212> PRT
 <213> Homo sapiens

```

<400> 110
Ile Gln Phe Asp Val Ala Glu Ser Val Ile Pro Ser Ser Gly Thr Phe
1           5           10           15
His Val Lys Leu Pro Lys Lys Arg Ser Val Glu Leu Gly Ile Thr Ile
20           25           30
Ser Ser Ala Ser Arg Lys Arg Gly Glu Pro Leu Ile Ile Ser Asp Ile
35           40           45
Lys Lys Gly Ser Val Ala His Arg Thr Gly Thr Leu Glu Pro Gly Asp
50           55           60
Lys Leu Leu Ala Ile Asp Asn Ile Arg Leu Asp Asn Cys Pro Met Glu
65           70           75           80
Asp Ala Val Gln Ile Leu Arg Gln Cys Glu Asp Leu Val Lys Leu Lys
85           90           95
Ile Arg Lys Asp Glu Asp Asn
100

```

<210> 111
 <211> 94
 <212> PRT
 <213> Homo sapiens

```

<400> 111
Ile Gln Thr Thr Gly Ala Val Ser Tyr Thr Val Glu Leu Lys Arg Tyr
1           5           10           15
Gly Gly Pro Leu Gly Ile Thr Ile Ser Gly Thr Glu Glu Pro Phe Asp
20           25           30
Pro Ile Val Ile Ser Gly Leu Thr Lys Arg Gly Leu Ala Glu Arg Thr
35           40           45
Gly Ala Ile His Val Gly Asp Arg Ile Leu Ala Ile Asn Asn Val Ser
50           55           60
Leu Lys Gly Arg Pro Leu Ser Glu Ala Ile His Leu Leu Gln Val Ala
65           70           75           80
Gly Glu Thr Val Thr Leu Lys Ile Lys Lys Gln Leu Asp Arg
85           90

```

<210> 112
 <211> 105
 <212> PRT

<213> Homo sapiens

<400> 112

Ile	Leu	Glu	Met	Glu	Glu	Leu	Leu	Leu	Pro	Thr	Pro	Leu	Glu	Met	His
1				5					10					15	
Lys	Val	Thr	Leu	His	Lys	Asp	Pro	Met	Arg	His	Asp	Phe	Gly	Phe	Ser
			20					25					30		
Val	Ser	Asp	Gly	Leu	Leu	Glu	Lys	Gly	Val	Tyr	Val	His	Thr	Val	Arg
		35					40					45			
Pro	Asp	Gly	Pro	Ala	His	Arg	Gly	Gly	Leu	Gln	Pro	Phe	Asp	Arg	Val
	50					55					60				
Leu	Gln	Val	Asn	His	Val	Arg	Thr	Arg	Asp	Phe	Asp	Cys	Cys	Leu	Ala
65					70					75					80
Val	Pro	Leu	Leu	Ala	Glu	Ala	Gly	Asp	Val	Leu	Glu	Leu	Ile	Ile	Ser
				85					90					95	
Arg	Lys	Pro	His	Thr	Ala	His	Ser	Ser							
			100					105							

<210> 113

<211> 91

<212> PRT

<213> Homo sapiens

<400> 113

Met	Ala	Leu	Thr	Val	Asp	Val	Ala	Gly	Pro	Ala	Pro	Trp	Gly	Phe	Arg
1				5					10					15	
Ile	Thr	Gly	Gly	Arg	Asp	Phe	His	Thr	Pro	Ile	Met	Val	Thr	Lys	Val
			20					25					30		
Ala	Glu	Arg	Gly	Lys	Ala	Lys	Asp	Ala	Asp	Leu	Arg	Pro	Gly	Asp	Ile
		35					40					45			
Ile	Val	Ala	Ile	Asn	Gly	Glu	Ser	Ala	Glu	Gly	Met	Leu	His	Ala	Glu
	50					55					60				
Ala	Gln	Ser	Lys	Ile	Arg	Gln	Ser	Pro	Ser	Pro	Leu	Arg	Leu	Gln	Leu
65					70					75					80
Asp	Arg	Ser	Gln	Ala	Thr	Ser	Pro	Gly	Gln	Thr					
			85						90						

<210> 114

<211> 84

<212> PRT

<213> Homo sapiens

<400> 114

Ser	Asn	Tyr	Ser	Val	Ser	Leu	Val	Gly	Pro	Ala	Pro	Trp	Gly	Phe	Arg
1				5					10					15	
Leu	Gln	Gly	Gly	Lys	Asp	Phe	Asn	Met	Pro	Leu	Thr	Ile	Ser	Ser	Leu
			20					25					30		
Lys	Asp	Gly	Gly	Lys	Ala	Ala	Gln	Ala	Asn	Val	Arg	Ile	Gly	Asp	Val
		35					40					45			
Val	Leu	Ser	Ile	Asp	Gly	Ile	Asn	Ala	Gln	Gly	Met	Thr	His	Leu	Glu
	50					55					60				
Ala	Gln	Asn	Lys	Ile	Lys	Gly	Cys	Thr	Gly	Ser	Leu	Asn	Met	Thr	Leu
65					70					75					80
Gln	Arg	Ala	Ser												

<210> 115

<211> 133
 <212> PRT
 <213> Homo sapiens

<400> 115
 Thr Leu Val Glu His Ser Lys Leu Tyr Cys Gly His Cys Tyr Tyr Gln
 1 5 10 15
 Thr Val Val Thr Pro Val Ile Glu Gln Ile Leu Pro Asp Ser Pro Gly
 20 25 30
 Ser His Leu Pro His Thr Val Thr Leu Val Ser Ile Pro Ala Ser Ser
 35 40 45
 His Gly Lys Arg Gly Leu Ser Val Ser Ile Asp Pro Pro His Gly Pro
 50 55 60
 Pro Gly Cys Gly Thr Glu His Ser His Thr Val Arg Val Gln Gly Val
 65 70 75 80
 Asp Pro Gly Cys Met Ser Pro Asp Val Lys Asn Ser Ile His Val Gly
 85 90 95
 Asp Arg Ile Leu Glu Ile Asn Gly Thr Pro Ile Arg Asn Val Pro Leu
 100 105 110
 Asp Glu Ile Asp Leu Leu Ile Gln Glu Thr Ser Arg Leu Leu Gln Leu
 115 120 125
 Thr Leu Glu His Asp
 130

<210> 116
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 116
 Pro Tyr Ser Val Thr Leu Ile Ser Met Pro Ala Thr Thr Glu Gly Arg
 1 5 10 15
 Arg Gly Phe Ser Val Ser Val Glu Ser Ala Cys Ser Asn Tyr Ala Thr
 20 25 30
 Thr Val Gln Val Lys Glu Val Asn Arg Met His Ile Ser Pro Asn Asn
 35 40 45
 Arg Asn Ala Ile His Pro Gly Asp Arg Ile Leu Glu Ile Asn Gly Thr
 50 55 60
 Pro Val Arg Thr Leu Arg Val Glu Glu Val Glu Asp Ala Ile Ser Gln
 65 70 75 80
 Thr Ser Gln Thr Leu Gln Leu Leu Ile Glu His Asp
 85 90

<210> 117
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 117
 Ile His Ser Val Thr Leu Arg Gly Pro Ser Pro Trp Gly Phe Arg Leu
 1 5 10 15
 Val Gly Arg Asp Phe Ser Ala Pro Leu Thr Ile Ser Arg Val His Ala
 20 25 30
 Gly Ser Lys Ala Ser Leu Ala Ala Leu Cys Pro Gly Asp Leu Ile Gln
 35 40 45
 Ala Ile Asn Gly Glu Ser Thr Glu Leu Met Thr His Leu Glu Ala Gln
 50 55 60
 Asn Arg Ile Lys Gly Cys His Asp His Leu Thr Leu Ser Val Ser Arg

65
Pro Glu

70

75

80

<210> 118
<211> 74
<212> PRT
<213> Homo sapiens

<400> 118
Val Cys Tyr Arg Thr Asp Asp Glu Glu Asp Leu Gly Ile Tyr Val Gly
1 5 10 15
Glu Val Asn Pro Asn Ser Ile Ala Ala Lys Asp Gly Arg Ile Arg Glu
20 25 30
Gly Asp Arg Ile Ile Gln Ile Asn Gly Val Asp Val Gln Asn Arg Glu
35 40 45
Glu Ala Val Ala Ile Leu Ser Gln Glu Glu Asn Thr Asn Ile Ser Leu
50 55 60
Leu Val Ala Arg Pro Glu Ser Gln Leu Ala
65 70

<210> 119
<211> 103
<212> PRT
<213> Homo sapiens

<400> 119
Ile Gln Lys Lys Asn His Trp Thr Ser Arg Val His Glu Cys Thr Val
1 5 10 15
Lys Arg Gly Pro Gln Gly Glu Leu Gly Val Thr Val Leu Gly Gly Ala
20 25 30
Glu His Gly Glu Phe Pro Tyr Val Gly Ala Val Ala Ala Val Glu Ala
35 40 45
Ala Gly Leu Pro Gly Gly Gly Glu Gly Pro Arg Leu Gly Glu Gly Glu
50 55 60
Leu Leu Leu Glu Val Gln Gly Val Arg Val Ser Gly Leu Pro Arg Tyr
65 70 75 80
Asp Val Leu Gly Val Ile Asp Ser Cys Lys Glu Ala Val Thr Phe Lys
85 90 95
Ala Val Arg Gln Gly Gly Arg
100

<210> 120
<211> 104
<212> PRT
<213> Homo sapiens

<400> 120
Pro Ser Glu Leu Lys Gly Lys Phe Ile His Thr Lys Leu Arg Lys Ser
1 5 10 15
Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu Pro Asp Glu
20 25 30
Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala Ala Leu Asp
35 40 45
Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn Asp Thr Cys
50 55 60
Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe Gln Ser Ile

1		5		10		15									
Gly	Val	Val	Ile	Val	Glu	Ser	Gly	Trp	Gly	Ser	Ile	Leu	Pro	Thr	Val
		20						25					30		
Ile	Ile	Ala	Asn	Met	Met	His	Gly	Gly	Pro	Ala	Glu	Lys	Ser	Gly	Lys
		35					40					45			
Leu	Asn	Ile	Gly	Asp	Gln	Ile	Met	Ser	Ile	Asn	Gly	Thr	Ser	Leu	Val
	50					55					60				
Gly	Leu	Pro	Leu	Ser	Thr	Cys	Gln	Ser	Ile	Ile	Lys	Gly	Leu	Lys	Asn
65					70					75					80
Gln	Ser	Arg	Val	Lys	Leu	Asn	Ile	Val	Arg	Cys	Pro	Pro	Val	Asn	Ser
				85					90					95	
Ser															

<210> 127
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 127
Leu Arg Cys Pro Pro Val Thr Thr Val Leu Ile Arg Arg Pro Asp Leu
1 5 10 15
Arg Tyr Gln Leu Gly Phe Ser Val Gln Asn Gly Ile Ile Cys Ser Leu
20 25 30
Met Arg Gly Gly Ile Ala Glu Arg Gly Gly Val Arg Val Gly His Arg
35 40 45
Ile Ile Glu Ile Asn Gly Gln Ser Val Val Ala Thr Pro His Glu Lys
50 55 60
Ile Val His Ile Leu Ser Asn Ala Val Gly Glu Ile His Met Lys Thr
65 70 75 80
Met Pro Ala Ala Met Tyr Arg Leu Leu Asn Ser Ser
85 90

<210> 128
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 128
Leu Ser Asn Ser Asp Asn Cys Arg Glu Val His Leu Glu Lys Arg Arg
1 5 10 15
Gly Glu Gly Leu Gly Val Ala Leu Val Glu Ser Gly Trp Gly Ser Leu
20 25 30
Leu Pro Thr Ala Val Ile Ala Asn Leu Leu His Gly Gly Pro Ala Glu
35 40 45
Arg Ser Gly Ala Leu Ser Ile Gly Asp Arg Leu Thr Ala Ile Asn Gly
50 55 60
Thr Ser Leu Val Gly Leu Pro Leu Ala Ala Cys Gln Ala Ala Val Arg
65 70 75 80
Glu Thr Lys Ser Gln Thr Ser Val Thr Leu Ser Ile Val His Cys Pro
85 90 95
Pro Val Thr Thr Ala Ile Met
100

<210> 129
 <211> 92
 <212> PRT

<213> Homo sapiens

<400> 129

Leu	Val	His	Cys	Pro	Pro	Val	Thr	Thr	Ala	Ile	Ile	His	Arg	Pro	His
1				5					10					15	
Ala	Arg	Glu	Gln	Leu	Gly	Phe	Cys	Val	Glu	Asp	Gly	Ile	Ile	Cys	Ser
			20					25					30		
Leu	Leu	Arg	Gly	Gly	Ile	Ala	Glu	Arg	Gly	Gly	Ile	Arg	Val	Gly	His
		35					40					45			
Arg	Ile	Ile	Glu	Ile	Asn	Gly	Gln	Ser	Val	Val	Ala	Thr	Pro	His	Ala
	50					55					60				
Arg	Ile	Ile	Glu	Leu	Leu	Thr	Glu	Ala	Tyr	Gly	Glu	Val	His	Ile	Lys
65					70					75					80
Thr	Met	Pro	Ala	Ala	Thr	Tyr	Arg	Leu	Leu	Thr	Gly				
				85					90						

<210> 130

<211> 86

<212> PRT

<213> Homo sapiens

<400> 130

Arg	Lys	Val	Arg	Leu	Ile	Gln	Phe	Glu	Lys	Val	Thr	Glu	Glu	Pro	Met
1				5					10					15	
Gly	Ile	Thr	Leu	Lys	Leu	Asn	Glu	Lys	Gln	Ser	Cys	Thr	Val	Ala	Arg
			20					25					30		
Ile	Leu	His	Gly	Gly	Met	Ile	His	Arg	Gln	Gly	Ser	Leu	His	Val	Gly
		35					40					45			
Asp	Glu	Ile	Leu	Glu	Ile	Asn	Gly	Thr	Asn	Val	Thr	Asn	His	Ser	Val
	50					55					60				
Asp	Gln	Leu	Gln	Lys	Ala	Met	Lys	Glu	Thr	Lys	Gly	Met	Ile	Ser	Leu
65					70					75					80
Lys	Val	Ile	Pro	Asn	Gln										
				85											

<210> 131

<211> 89

<212> PRT

<213> Homo sapiens

<400> 131

Pro	Val	Pro	Pro	Asp	Ala	Val	Arg	Met	Val	Gly	Ile	Arg	Lys	Thr	Ala
1				5					10					15	
Gly	Glu	His	Leu	Gly	Val	Thr	Phe	Arg	Val	Glu	Gly	Gly	Glu	Leu	Val
			20					25					30		
Ile	Ala	Arg	Ile	Leu	His	Gly	Gly	Met	Val	Ala	Gln	Gln	Gly	Leu	Leu
		35					40					45			
His	Val	Gly	Asp	Ile	Ile	Lys	Glu	Val	Asn	Gly	Gln	Pro	Val	Gly	Ser
	50					55					60				
Asp	Pro	Arg	Ala	Leu	Gln	Glu	Leu	Leu	Arg	Asn	Ala	Ser	Gly	Ser	Val
65					70					75					80
Ile	Leu	Lys	Ile	Leu	Pro	Asn	Tyr	Gln							
				85											

<210> 132

<211> 99

<212> PRT

<213> Homo sapiens

<400> 132

```
Gln Gly Arg His Val Glu Val Phe Glu Leu Leu Lys Pro Pro Ser Gly
 1              5              10              15
Gly Leu Gly Phe Ser Val Val Gly Leu Arg Ser Glu Asn Arg Gly Glu
              20              25              30
Leu Gly Ile Phe Val Gln Glu Ile Gln Glu Gly Ser Val Ala His Arg
              35              40              45
Asp Gly Arg Leu Lys Glu Thr Asp Gln Ile Leu Ala Ile Asn Gly Gln
              50              55              60
Ala Leu Asp Gln Thr Ile Thr His Gln Gln Ala Ile Ser Ile Leu Gln
              65              70              75              80
Lys Ala Lys Asp Thr Val Gln Leu Val Ile Ala Arg Gly Ser Leu Pro
              85              90              95
Gln Leu Val
```

<210> 133

<211> 97

<212> PRT

<213> Homo sapiens

<400> 133

```
Pro Val His Trp Gln His Met Glu Thr Ile Glu Leu Val Asn Asp Gly
 1              5              10              15
Ser Gly Leu Gly Phe Gly Ile Ile Gly Gly Lys Ala Thr Gly Val Ile
              20              25              30
Val Lys Thr Ile Leu Pro Gly Gly Val Ala Asp Gln His Gly Arg Leu
              35              40              45
Cys Ser Gly Asp His Ile Leu Lys Ile Gly Asp Thr Asp Leu Ala Gly
              50              55              60
Met Ser Ser Glu Gln Val Ala Gln Val Leu Arg Gln Cys Gly Asn Arg
              65              70              75              80
Val Lys Leu Met Ile Ala Arg Gly Ala Ile Glu Glu Arg Thr Ala Pro
              85              90              95
Thr
```

<210> 134

<211> 98

<212> PRT

<213> Homo sapiens

<400> 134

```
Gln Glu Ser Glu Thr Phe Asp Val Glu Leu Thr Lys Asn Val Gln Gly
 1              5              10              15
Leu Gly Ile Thr Ile Ala Gly Tyr Ile Gly Asp Lys Lys Leu Glu Pro
              20              25              30
Ser Gly Ile Phe Val Lys Ser Ile Thr Lys Ser Ser Ala Val Glu His
              35              40              45
Asp Gly Arg Ile Gln Ile Gly Asp Gln Ile Ile Ala Val Asp Gly Thr
              50              55              60
Asn Leu Gln Gly Phe Thr Asn Gln Gln Ala Val Glu Val Leu Arg His
              65              70              75              80
Thr Gly Gln Thr Val Leu Leu Thr Leu Met Arg Arg Gly Met Lys Gln
              85              90              95
Glu Ala
```


<210> 135
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 135
 Leu Asn Tyr Glu Ile Val Val Ala His Val Ser Lys Phe Ser Glu Asn
 1 5 10 15
 Ser Gly Leu Gly Ile Ser Leu Glu Ala Thr Val Gly His His Phe Ile
 20 25 30
 Arg Ser Val Leu Pro Glu Gly Pro Val Gly His Ser Gly Lys Leu Phe
 35 40 45
 Ser Gly Asp Glu Leu Leu Glu Val Asn Gly Ile Thr Leu Leu Gly Glu
 50 55 60
 Asn His Gln Asp Val Val Asn Ile Leu Lys Glu Leu Pro Ile Glu Val
 65 70 75 80
 Thr Met Val Cys Cys Arg Arg Thr Val Pro Pro Thr
 85 90

<210> 136
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 136
 Trp Glu Ala Gly Ile Gln His Ile Glu Leu Glu Lys Gly Ser Lys Gly
 1 5 10 15
 Leu Gly Phe Ser Ile Leu Asp Tyr Gln Asp Pro Ile Asp Pro Ala Ser
 20 25 30
 Thr Val Ile Ile Ile Arg Ser Leu Val Pro Gly Gly Ile Ala Glu Lys
 35 40 45
 Asp Gly Arg Leu Leu Pro Gly Asp Arg Leu Met Phe Val Asn Asp Val
 50 55 60
 Asn Leu Glu Asn Ser Ser Leu Glu Glu Ala Val Glu Ala Leu Lys Gly
 65 70 75 80
 Ala Pro Ser Gly Thr Val Arg Ile Gly Val Ala Lys Pro Leu Pro Leu
 85 90 95
 Ser Pro Glu Glu
 100

<210> 137
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 137
 Arg Asn Val Ser Lys Glu Ser Phe Glu Arg Thr Ile Asn Ile Ala Lys
 1 5 10 15
 Gly Asn Ser Ser Leu Gly Met Thr Val Ser Ala Asn Lys Asp Gly Leu
 20 25 30
 Gly Met Ile Val Arg Ser Ile Ile His Gly Gly Ala Ile Ser Arg Asp
 35 40 45
 Gly Arg Ile Ala Ile Gly Asp Cys Ile Leu Ser Ile Asn Glu Glu Ser
 50 55 60
 Thr Ile Ser Val Thr Asn Ala Gln Ala Arg Ala Met Leu Arg Arg His

		20					25				30				
Pro	Ile	Phe	Ile	Ala	Met	Met	His	Pro	Thr	Gly	Val	Ala	Ala	Gln	Thr
		35					40					45			
Gln	Lys	Leu	Arg	Val	Gly	Asp	Arg	Ile	Val	Thr	Ile	Cys	Gly	Thr	Ser
	50					55					60				
Thr	Glu	Gly	Met	Thr	His	Thr	Gln	Ala	Val	Asn	Leu	Leu	Lys	Asn	Ala
65					70					75					80
Ser	Gly	Ser	Ile	Glu	Met	Gln	Val	Val	Ala	Gly	Gly	Asp	Val	Ser	Val
			85						90					95	

<210> 144
 <211> 91
 <212> PRT
 <213> Homo sapiens

Leu	Gly	Pro	Pro	Gln	Cys	Lys	Ser	Ile	Thr	Leu	Glu	Arg	Gly	Pro	Asp
1				5					10					15	
Gly	Leu	Gly	Phe	Ser	Ile	Val	Gly	Gly	Tyr	Gly	Ser	Pro	His	Gly	Asp
			20					25					30		
Leu	Pro	Ile	Tyr	Val	Lys	Thr	Val	Phe	Ala	Lys	Gly	Ala	Ala	Ser	Glu
		35					40					45			
Asp	Gly	Arg	Leu	Lys	Arg	Gly	Asp	Gln	Ile	Ile	Ala	Val	Asn	Gly	Gln
50						55					60				
Ser	Leu	Glu	Gly	Val	Thr	His	Glu	Glu	Ala	Val	Ala	Ile	Leu	Lys	Arg
65					70					75					80
Thr	Lys	Gly	Thr	Val	Thr	Leu	Met	Val	Leu	Ser					
				85					90						

<210> 145
 <211> 93
 <212> PRT
 <213> Homo sapiens

Ile	Gln	Tyr	Glu	Glu	Ile	Val	Leu	Glu	Arg	Gly	Asn	Ser	Gly	Leu	Gly
1				5					10					15	
Phe	Ser	Ile	Ala	Gly	Gly	Ile	Asp	Asn	Pro	His	Val	Pro	Asp	Asp	Pro
			20					25					30		
Gly	Ile	Phe	Ile	Thr	Lys	Ile	Ile	Pro	Gly	Gly	Ala	Ala	Ala	Met	Asp
		35					40					45			
Gly	Arg	Leu	Gly	Val	Asn	Asp	Cys	Val	Leu	Arg	Val	Asn	Glu	Val	Glu
50						55					60				
Val	Ser	Glu	Val	Val	His	Ser	Arg	Ala	Val	Glu	Ala	Leu	Lys	Glu	Ala
65					70					75					80
Gly	Pro	Val	Val	Arg	Leu	Val	Val	Arg	Arg	Arg	Gln	Asn			
				85					90						

<210> 146
 <211> 90
 <212> PRT
 <213> Homo sapiens

Ile	Thr	Leu	Leu	Lys	Gly	Pro	Lys	Gly	Leu	Gly	Phe	Ser	Ile	Ala	Gly
1				5					10					15	
Gly	Ile	Gly	Asn	Gln	His	Ile	Pro	Gly	Asp	Asn	Ser	Ile	Tyr	Ile	Thr

	20						25				30				
Lys	Ile	Ile	Glu	Gly	Gly	Ala	Ala	Gln	Lys	Asp	Gly	Arg	Leu	Gln	Ile
	35						40				45				
Gly	Asp	Arg	Leu	Leu	Ala	Val	Asn	Asn	Thr	Asn	Leu	Gln	Asp	Val	Arg
	50					55					60				
His	Glu	Glu	Ala	Val	Ala	Ser	Leu	Lys	Asn	Thr	Ser	Asp	Met	Val	Tyr
65					70					75					80
Leu	Lys	Val	Ala	Lys	Pro	Gly	Ser	Leu	Glu						
			85						90						

<210> 147
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 147

Ile	Leu	Leu	His	Lys	Gly	Ser	Thr	Gly	Leu	Gly	Phe	Asn	Ile	Val	Gly
1				5					10					15	
Gly	Glu	Asp	Gly	Glu	Gly	Ile	Phe	Val	Ser	Phe	Ile	Leu	Ala	Gly	Gly
			20					25					30		
Pro	Ala	Asp	Leu	Ser	Gly	Glu	Leu	Arg	Arg	Gly	Asp	Arg	Ile	Leu	Ser
		35					40					45			
Val	Asn	Gly	Val	Asn	Leu	Arg	Asn	Ala	Thr	His	Glu	Gln	Ala	Ala	Ala
	50					55					60				
Ala	Leu	Lys	Arg	Ala	Gly	Gln	Ser	Val	Thr	Ile	Val	Ala	Gln	Tyr	Arg
65					70					75					80
Pro	Glu	Glu	Tyr	Ser	Arg	Phe	Glu	Ser	Lys	Ile	His	Asp	Leu	Arg	Glu
				85					90					95	
Gln	Met	Met	Asn	Ser	Ser	Met	Ser	Ser	Gly	Ser	Gly	Ser	Leu	Arg	Thr
			100					105						110	
Ser	Glu	Lys	Arg	Ser	Leu	Glu									
			115												

<210> 148
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 148

Cys	Val	Glu	Arg	Leu	Glu	Leu	Phe	Pro	Val	Glu	Leu	Glu	Lys	Asp	Ser
1				5					10					15	
Glu	Gly	Leu	Gly	Ile	Ser	Ile	Ile	Gly	Met	Gly	Ala	Gly	Ala	Asp	Met
			20					25					30		
Gly	Leu	Glu	Lys	Leu	Gly	Ile	Phe	Val	Lys	Thr	Val	Thr	Glu	Gly	Gly
			35				40					45			
Ala	Ala	His	Arg	Asp	Gly	Arg	Ile	Gln	Val	Asn	Asp	Leu	Leu	Val	Glu
	50					55					60				
Val	Asp	Gly	Thr	Ser	Leu	Val	Gly	Val	Thr	Gln	Ser	Phe	Ala	Ala	Ser
65					70					75					80
Val	Leu	Arg	Asn	Thr	Lys	Gly	Arg	Val	Arg	Phe	Met	Ile	Gly	Arg	Glu
			85						90					95	
Arg	Pro	Gly	Glu	Gln	Ser	Glu	Val	Ala	Gln	Arg	Ile	His	Arg	Asp	
			100					105						110	

<210> 149
 <211> 90
 <212> PRT

<213> Homo sapiens

<400> 149

```
Ile Gln Pro Asn Val Ile Ser Val Arg Leu Phe Lys Arg Lys Val Gly
 1          5          10          15
Gly Leu Gly Phe Leu Val Lys Glu Arg Val Ser Lys Pro Pro Val Ile
          20          25          30
Ile Ser Asp Leu Ile Arg Gly Gly Ala Ala Glu Gln Ser Gly Leu Ile
          35          40          45
Gln Ala Gly Asp Ile Ile Leu Ala Val Asn Gly Arg Pro Leu Val Asp
          50          55          60
Leu Ser Tyr Asp Ser Ala Leu Glu Val Leu Arg Gly Ile Ala Ser Glu
65          70          75          80
Thr His Val Val Leu Ile Leu Arg Gly Pro
          85          90
```

<210> 150

<211> 107

<212> PRT

<213> Homo sapiens

<400> 150

```
Gln Ala Asn Ser Asp Glu Ser Asp Ile Ile His Ser Val Arg Val Glu
 1          5          10          15
Lys Ser Pro Ala Gly Arg Leu Gly Phe Ser Val Arg Gly Gly Ser Glu
          20          25          30
His Gly Leu Gly Ile Phe Val Ser Lys Val Glu Glu Gly Ser Ser Ala
          35          40          45
Glu Arg Ala Gly Leu Cys Val Gly Asp Lys Ile Thr Glu Val Asn Gly
          50          55          60
Leu Ser Leu Glu Ser Thr Thr Met Gly Ser Ala Val Lys Val Leu Thr
65          70          75          80
Ser Ser Ser Arg Leu His Met Met Val Arg Arg Met Gly Arg Val Pro
          85          90          95
Gly Ile Lys Phe Ser Lys Glu Lys Asn Ser Ser
          100          105
```

<210> 151

<211> 106

<212> PRT

<213> Homo sapiens

<400> 151

```
Pro Ser Asp Thr Ser Ser Glu Asp Gly Val Arg Arg Ile Val His Leu
 1          5          10          15
Tyr Thr Thr Ser Asp Asp Phe Cys Leu Gly Phe Asn Ile Arg Gly Gly
          20          25          30
Lys Glu Phe Gly Leu Gly Ile Tyr Val Ser Lys Val Asp His Gly Gly
          35          40          45
Leu Ala Glu Glu Asn Gly Ile Lys Val Gly Asp Gln Val Leu Ala Ala
          50          55          60
Asn Gly Val Arg Phe Asp Asp Ile Ser His Ser Gln Ala Val Glu Val
65          70          75          80
Leu Lys Gly Gln Thr His Ile Met Leu Thr Ile Lys Glu Thr Gly Arg
          85          90          95
Tyr Pro Ala Tyr Lys Glu Met Asn Ser Ser
          100          105
```

<210> 152
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 152
 Lys Ile Lys Lys Phe Leu Thr Glu Ser His Asp Arg Gln Ala Lys Gly
 1 5 10 15
 Lys Ala Ile Thr Lys Lys Lys Tyr Ile Gly Ile Arg Met Met Ser Leu
 20 25 30
 Thr Ser Ser Lys Ala Lys Glu Leu Lys Asp Arg His Arg Asp Phe Pro
 35 40 45
 Asp Val Ile Ser Gly Ala Tyr Ile Ile Glu Val Ile Pro Asp Thr Pro
 50 55 60
 Ala Glu Ala Gly Gly Leu Lys Glu Asn Asp Val Ile Ile Ser Ile Asn
 65 70 75 80
 Gly Gln Ser Val Val Ser Ala Asn Asp Val Ser Asp Val Ile Lys Arg
 85 90 95
 Glu Ser Thr Leu Asn Met Val Val Arg Arg Gly Asn Glu Asp Ile Met
 100 105 110
 Ile Thr Val
 115

<210> 153
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 153
 Pro Asp Gly Glu Ile Thr Ser Ile Lys Ile Asn Arg Val Asp Pro Ser
 1 5 10 15
 Glu Ser Leu Ser Ile Arg Leu Val Gly Gly Ser Glu Thr Pro Leu Val
 20 25 30
 His Ile Ile Ile Gln His Ile Tyr Arg Asp Gly Val Ile Ala Arg Asp
 35 40 45
 Gly Arg Leu Leu Pro Gly Asp Ile Ile Leu Lys Val Asn Gly Met Asp
 50 55 60
 Ile Ser Asn Val Pro His Asn Tyr Ala Val Arg Leu Leu Arg Gln Pro
 65 70 75 80
 Cys Gln Val Leu Trp Leu Thr Val Met Arg Glu Gln Lys Phe Arg Ser
 85 90 95
 Arg Asn Ser Ser
 100

<210> 154
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 154
 His Arg Pro Arg Asp Asp Ser Phe His Val Ile Leu Asn Lys Ser Ser
 1 5 10 15
 Pro Glu Glu Gln Leu Gly Ile Lys Leu Val Arg Lys Val Asp Glu Pro
 20 25 30
 Gly Val Phe Ile Phe Asn Val Leu Asp Gly Gly Val Ala Tyr Arg His
 35 40 45
 Gly Gln Leu Glu Glu Asn Asp Arg Val Leu Ala Ile Asn Gly His Asp

50		55		60											
Leu	Arg	Tyr	Gly	Ser	Pro	Glu	Ser	Ala	Ala	His	Leu	Ile	Gln	Ala	Ser
65					70					75					80
Glu	Arg	Arg	Val	His	Leu	Val	Val	Ser	Arg	Gln	Val	Arg	Gln	Arg	Ser
				85					90					95	
Pro	Glu	Asn	Ser	Ser											
				100											

<210> 155
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 155

Pro	Thr	Ile	Thr	Cys	His	Glu	Lys	Val	Val	Asn	Ile	Gln	Lys	Asp	Pro
1				5					10					15	
Gly	Glu	Ser	Leu	Gly	Met	Thr	Val	Ala	Gly	Gly	Ala	Ser	His	Arg	Glu
			20					25					30		
Trp	Asp	Leu	Pro	Ile	Tyr	Val	Ile	Ser	Val	Glu	Pro	Gly	Gly	Val	Ile
	35					40						45			
Ser	Arg	Asp	Gly	Arg	Ile	Lys	Thr	Gly	Asp	Ile	Leu	Leu	Asn	Val	Asp
	50					55				60					
Gly	Val	Glu	Leu	Thr	Glu	Val	Ser	Arg	Ser	Glu	Ala	Val	Ala	Leu	Leu
65					70					75					80
Lys	Arg	Thr	Ser	Ser	Ser	Ile	Val	Leu	Lys	Ala	Leu	Glu	Val	Lys	Glu
			85						90					95	
Tyr	Glu	Pro	Gln	Glu	Phe	Ile	Val								
				100											

<210> 156
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 156

Pro	Arg	Cys	Leu	Tyr	Asn	Cys	Lys	Asp	Ile	Val	Leu	Arg	Arg	Asn	Thr
1				5					10					15	
Ala	Gly	Ser	Leu	Gly	Phe	Cys	Ile	Val	Gly	Gly	Tyr	Glu	Glu	Tyr	Asn
			20					25					30		
Gly	Asn	Lys	Pro	Phe	Phe	Ile	Lys	Ser	Ile	Val	Glu	Gly	Thr	Pro	Ala
	35					40					45				
Tyr	Asn	Asp	Gly	Arg	Ile	Arg	Cys	Gly	Asp	Ile	Leu	Leu	Ala	Val	Asn
	50					55				60					
Gly	Arg	Ser	Thr	Ser	Gly	Met	Ile	His	Ala	Cys	Leu	Ala	Arg	Leu	Leu
65					70					75					80
Lys	Glu	Leu	Lys	Gly	Arg	Ile	Thr	Leu	Thr	Ile	Val	Ser	Trp	Pro	Gly
			85						90					95	
Thr	Phe	Leu													

<210> 157
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 157

Leu	Leu	Thr	Glu	Glu	Glu	Ile	Asn	Leu	Thr	Arg	Gly	Pro	Ser	Gly	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1		5		10		15									
Gly	Phe	Asn	Ile	Val	Gly	Gly	Thr	Asp	Gln	Gln	Tyr	Val	Ser	Asn	Asp
		20						25					30		
Ser	Gly	Ile	Tyr	Val	Ser	Arg	Ile	Lys	Glu	Asn	Gly	Ala	Ala	Ala	Leu
		35					40					45			
Asp	Gly	Arg	Leu	Gln	Glu	Gly	Asp	Lys	Ile	Leu	Ser	Val	Asn	Gly	Gln
		50				55					60				
Asp	Leu	Lys	Asn	Leu	Leu	His	Gln	Asp	Ala	Val	Asp	Leu	Phe	Arg	Asn
		65				70					75				80
Ala	Gly	Tyr	Ala	Val	Ser	Leu	Arg	Val	Gln	His	Arg	Leu	Gln	Val	Gln
				85					90					95	
Asn	Gly	Ile	His	Ser											
				100											

<210> 158
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 158
Pro Val Asp Ala Ile Arg Ile Leu Gly Ile His Lys Arg Ala Gly Glu
1 5 10 15
Pro Leu Gly Val Thr Phe Arg Val Glu Asn Asn Asp Leu Val Ile Ala
20 25 30
Arg Ile Leu His Gly Gly Met Ile Asp Arg Gln Gly Leu Leu His Val
35 40 45
Gly Asp Ile Ile Lys Glu Val Asn Gly His Glu Val Gly Asn Asn Pro
50 55 60
Lys Glu Leu Gln Glu Leu Leu Lys Asn Ile Ser Gly Ser Val Thr Leu
65 70 75 80
Lys Ile Leu Pro Ser Tyr Arg Asp Thr Ile Thr Pro Gln Gln
85 90

<210> 159
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 159
Asp Asp Met Val Lys Leu Val Glu Val Pro Asn Asp Gly Gly Pro Leu
1 5 10 15
Gly Ile His Val Val Pro Phe Ser Ala Arg Gly Gly Arg Thr Leu Gly
20 25 30
Leu Leu Val Lys Arg Leu Glu Lys Gly Gly Lys Ala Glu His Glu Asn
35 40 45
Leu Phe Arg Glu Asn Asp Cys Ile Val Arg Ile Asn Asp Gly Asp Leu
50 55 60
Arg Asn Arg Arg Phe Glu Gln Ala Gln His Met Phe Arg Gln Ala Met
65 70 75 80
Arg Thr Pro Ile Ile Trp Phe His Val Val Pro Ala Ala
85 90

<210> 160
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 160

```
Gly Lys Arg Leu Asn Ile Gln Leu Lys Lys Gly Thr Glu Gly Leu Gly
 1          5          10          15
Phe Ser Ile Thr Ser Arg Asp Val Thr Ile Gly Gly Ser Ala Pro Ile
          20          25          30
Tyr Val Lys Asn Ile Leu Pro Arg Gly Ala Ala Ile Gln Asp Gly Arg
          35          40          45
Leu Lys Ala Gly Asp Arg Leu Ile Glu Val Asn Gly Val Asp Leu Val
          50          55          60
Gly Lys Ser Gln Glu Glu Val Val Ser Leu Leu Arg Ser Thr Lys Met
65          70          75          80
Glu Gly Thr Val Ser Leu Leu Val Phe Arg Gln Glu Asp Ala
          85          90
```

<210> 161

<211> 103

<212> PRT

<213> Homo sapiens

<400> 161

```
Thr Pro Asp Gly Thr Arg Glu Phe Leu Thr Phe Glu Val Pro Leu Asn
 1          5          10          15
Asp Ser Gly Ser Ala Gly Leu Gly Val Ser Val Lys Gly Asn Arg Ser
          20          25          30
Lys Glu Asn His Ala Asp Leu Gly Ile Phe Val Lys Ser Ile Ile Asn
          35          40          45
Gly Gly Ala Ala Ser Lys Asp Gly Arg Leu Arg Val Asn Asp Gln Leu
          50          55          60
Ile Ala Val Asn Gly Glu Ser Leu Leu Gly Lys Thr Asn Gln Asp Ala
65          70          75          80
Met Glu Thr Leu Arg Arg Ser Met Ser Thr Glu Gly Asn Lys Arg Gly
          85          90          95
Met Ile Gln Leu Ile Val Ala
          100
```

<210> 162

<211> 102

<212> PRT

<213> Homo sapiens

<400> 162

```
Leu Pro Glu Thr His Arg Arg Val Arg Leu His Lys His Gly Ser Asp
 1          5          10          15
Arg Pro Leu Gly Phe Tyr Ile Arg Asp Gly Met Ser Val Arg Val Ala
          20          25          30
Pro Gln Gly Leu Glu Arg Val Pro Gly Ile Phe Ile Ser Arg Leu Val
          35          40          45
Arg Gly Gly Leu Ala Glu Ser Thr Gly Leu Leu Ala Val Ser Asp Glu
          50          55          60
Ile Leu Glu Val Asn Gly Ile Glu Val Ala Gly Lys Thr Leu Asp Gln
65          70          75          80
Val Thr Asp Met Met Val Ala Asn Ser His Asn Leu Ile Val Thr Val
          85          90          95
Lys Pro Ala Asn Gln Arg
          100
```

<210> 163

<211> 111
 <212> PRT
 <213> Homo sapiens

<400> 163

Ile	Asp	Val	Asp	Leu	Val	Pro	Glu	Thr	His	Arg	Arg	Val	Arg	Leu	His
1				5					10					15	
Arg	His	Gly	Cys	Glu	Lys	Pro	Leu	Gly	Phe	Tyr	Ile	Arg	Asp	Gly	Ala
		20						25					30		
Ser	Val	Arg	Val	Thr	Pro	His	Gly	Leu	Glu	Lys	Val	Pro	Gly	Ile	Phe
		35					40					45			
Ile	Ser	Arg	Met	Val	Pro	Gly	Gly	Leu	Ala	Glu	Ser	Thr	Gly	Leu	Leu
	50					55					60				
Ala	Val	Asn	Asp	Glu	Val	Leu	Glu	Val	Asn	Gly	Ile	Glu	Val	Ala	Gly
65				70						75					80
Lys	Thr	Leu	Asp	Gln	Val	Thr	Asp	Met	Met	Ile	Ala	Asn	Ser	His	Asn
			85						90					95	
Leu	Ile	Val	Thr	Val	Lys	Pro	Ala	Asn	Gln	Arg	Asn	Asn	Val	Val	
			100					105						110	

<210> 164
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 164

Arg	Ser	Arg	Lys	Leu	Lys	Glu	Val	Arg	Leu	Asp	Arg	Leu	His	Pro	Glu
1				5					10					15	
Gly	Leu	Gly	Leu	Ser	Val	Arg	Gly	Gly	Leu	Glu	Phe	Gly	Cys	Gly	Leu
			20					25					30		
Phe	Ile	Ser	His	Leu	Ile	Lys	Gly	Gly	Gln	Ala	Asp	Ser	Val	Gly	Leu
		35					40					45			
Gln	Val	Gly	Asp	Glu	Ile	Val	Arg	Ile	Asn	Gly	Tyr	Ser	Ile	Ser	Ser
	50					55					60				
Cys	Thr	His	Glu	Glu	Val	Ile	Asn	Leu	Ile	Arg	Thr	Lys	Lys	Thr	Val
65				70						75					80
Ser	Ile	Lys	Val	Arg	His	Ile	Gly	Leu	Ile	Pro	Val	Lys	Ser	Ser	Pro
			85					90						95	
Asp	Glu	Phe	His												
			100												

<210> 165
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 165

Ile	Pro	Gly	Asn	Arg	Glu	Asn	Lys	Glu	Lys	Lys	Val	Phe	Ile	Ser	Leu
1				5					10					15	
Val	Gly	Ser	Arg	Gly	Leu	Gly	Cys	Ser	Ile	Ser	Ser	Gly	Pro	Ile	Gln
			20					25					30		
Lys	Pro	Gly	Ile	Phe	Ile	Ser	His	Val	Lys	Pro	Gly	Ser	Leu	Ser	Ala
		35					40					45			
Glu	Val	Gly	Leu	Glu	Ile	Gly	Asp	Gln	Ile	Val	Glu	Val	Asn	Gly	Val
	50					55					60				
Asp	Phe	Ser	Asn	Leu	Asp	His	Lys	Glu	Ala	Val	Asn	Val	Leu	Lys	Ser
65				70						75					80
Ser	Arg	Ser	Leu	Thr	Ile	Ser	Ile	Val	Ala	Ala	Ala	Gly	Arg	Glu	Leu

85
Phe Met Thr Asp Glu Phe
100

90

95

<210> 166
<211> 103
<212> PRT
<213> Homo sapiens

<400> 166
Pro Glu Gln Ile Met Gly Lys Asp Val Arg Leu Leu Arg Ile Lys Lys
1 5 10 15
Glu Gly Ser Leu Asp Leu Ala Leu Glu Gly Gly Val Asp Ser Pro Ile
20 25 30
Gly Lys Val Val Val Ser Ala Val Tyr Glu Arg Gly Ala Ala Glu Arg
35 40 45
His Gly Gly Ile Val Lys Gly Asp Glu Ile Met Ala Ile Asn Gly Lys
50 55 60
Ile Val Thr Asp Tyr Thr Leu Ala Glu Ala Asp Ala Ala Leu Gln Lys
65 70 75 80
Ala Trp Asn Gln Gly Gly Asp Trp Ile Asp Leu Val Val Ala Val Cys
85 90 95
Pro Pro Lys Glu Tyr Asp Asp
100

<210> 167
<211> 103
<212> PRT
<213> Homo sapiens

<400> 167
Leu Thr Ser Thr Phe Asn Pro Arg Glu Cys Lys Leu Ser Lys Gln Glu
1 5 10 15
Gly Gln Asn Tyr Gly Phe Phe Leu Arg Ile Glu Lys Asp Thr Glu Gly
20 25 30
His Leu Val Arg Val Val Glu Lys Cys Ser Pro Ala Glu Lys Ala Gly
35 40 45
Leu Gln Asp Gly Asp Arg Val Leu Arg Ile Asn Gly Val Phe Val Asp
50 55 60
Lys Glu Glu His Met Gln Val Val Asp Leu Val Arg Lys Ser Gly Asn
65 70 75 80
Ser Val Thr Leu Leu Val Leu Asp Gly Asp Ser Tyr Glu Lys Ala Gly
85 90 95
Ser Pro Gly Ile His Arg Asp
100

<210> 168
<211> 92
<212> PRT
<213> Homo sapiens

<400> 168
Arg Leu Cys Tyr Leu Val Lys Glu Gly Gly Ser Tyr Gly Phe Ser Leu
1 5 10 15
Lys Thr Val Gln Gly Lys Lys Gly Val Tyr Met Thr Asp Ile Thr Pro
20 25 30
Gln Gly Val Ala Met Arg Ala Gly Val Leu Ala Asp Asp His Leu Ile

		35					40					45							
Glu	Val	Asn	Gly	Glu	Asn	Val	Glu	Asp	Ala	Ser	His	Glu	Glu	Val	Val				
	50						55				60								
Glu	Lys	Val	Lys	Lys	Ser	Gly	Ser	Arg	Val	Met	Phe	Leu	Leu	Val	Asp				
65					70					75					80				
Lys	Glu	Thr	Asp	Lys	Arg	Glu	Phe	Ile	Val	Thr	Asp								
			85						90										

<210> 169
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 169																			
Gln	Phe	Lys	Arg	Glu	Thr	Ala	Ser	Leu	Lys	Leu	Leu	Pro	His	Gln	Pro				
1				5				10						15					
Arg	Ile	Val	Glu	Met	Lys	Lys	Gly	Ser	Asn	Gly	Tyr	Gly	Phe	Tyr	Leu				
		20					25						30						
Arg	Ala	Gly	Ser	Glu	Gln	Lys	Gly	Gln	Ile	Ile	Lys	Asp	Ile	Asp	Ser				
		35					40					45							
Gly	Ser	Pro	Ala	Glu	Glu	Ala	Gly	Leu	Lys	Asn	Asn	Asp	Leu	Val	Val				
	50					55					60								
Ala	Val	Asn	Gly	Glu	Ser	Val	Glu	Thr	Leu	Asp	His	Asp	Ser	Val	Val				
65				70					75						80				
Glu	Met	Ile	Arg	Lys	Gly	Gly	Asp	Gln	Thr	Ser	Leu	Leu	Val	Val	Asp				
			85					90					95						
Lys	Glu	Thr	Asp	Asn	Met	Tyr	Arg	Leu	Ala	Glu	Phe	Ile	Val	Thr	Asp				
			100					105					110						

<210> 170
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 170																			
Pro	Asp	Thr	Thr	Glu	Glu	Val	Asp	His	Lys	Pro	Lys	Leu	Cys	Arg	Leu				
1				5				10						15					
Ala	Lys	Gly	Glu	Asn	Gly	Tyr	Gly	Phe	His	Leu	Asn	Ala	Ile	Arg	Gly				
		20					25						30						
Leu	Pro	Gly	Ser	Phe	Ile	Lys	Glu	Val	Gln	Lys	Gly	Gly	Pro	Ala	Asp				
		35					40					45							
Leu	Ala	Gly	Leu	Glu	Asp	Glu	Asp	Val	Ile	Ile	Glu	Val	Asn	Gly	Val				
	50					55					60								
Asn	Val	Leu	Asp	Glu	Pro	Tyr	Glu	Lys	Val	Val	Asp	Arg	Ile	Gln	Ser				
65				70				75						80					
Ser	Gly	Lys	Asn	Val	Thr	Leu	Leu	Val	Glx	Gly	Lys	Asn	Ser	Ser					
			85					90						95					

<210> 171
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 171																			
Pro	Thr	Val	Pro	Gly	Lys	Val	Thr	Leu	Gln	Lys	Asp	Ala	Gln	Asn	Leu				
1				5				10						15					
Ile	Gly	Ile	Ser	Ile	Gly	Gly	Gly	Ala	Gln	Tyr	Cys	Pro	Cys	Leu	Tyr				

		20					25				30				
Ile	Val	Gln	Val	Phe	Asp	Asn	Thr	Pro	Ala	Ala	Leu	Asp	Gly	Thr	Val
		35					40					45			
Ala	Ala	Gly	Asp	Glu	Ile	Thr	Gly	Val	Asn	Gly	Arg	Ser	Ile	Lys	Gly
		50				55					60				
Lys	Thr	Lys	Val	Glu	Val	Ala	Lys	Met	Ile	Gln	Glu	Val	Lys	Gly	Glu
65					70					75					80
Val	Thr	Ile	His	Tyr	Asn	Lys	Leu	Gln							
				85											

<210> 172
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 172

Ser	Gln	Gly	Val	Gly	Pro	Ile	Arg	Lys	Val	Leu	Leu	Leu	Lys	Glu	Asp
1				5					10					15	
His	Glu	Gly	Leu	Gly	Ile	Ser	Ile	Thr	Gly	Gly	Lys	Glu	His	Gly	Val
			20					25					30		
Pro	Ile	Leu	Ile	Ser	Glu	Ile	His	Pro	Gly	Gln	Pro	Ala	Asp	Arg	Cys
		35					40					45			
Gly	Gly	Leu	His	Val	Gly	Asp	Ala	Ile	Leu	Ala	Val	Asn	Gly	Val	Asn
		50				55					60				
Leu	Arg	Asp	Thr	Lys	His	Lys	Glu	Ala	Val	Thr	Ile	Leu	Ser	Gln	Gln
65					70					75					80
Arg	Gly	Glu	Ile	Glu	Phe	Glu	Val	Val	Tyr	Val	Ala	Pro	Glu	Val	Asp
				85					90					95	

Ser Asp

<210> 173
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 173

Ile	His	Val	Thr	Ile	Leu	His	Lys	Glu	Glu	Gly	Ala	Gly	Leu	Gly	Phe
1				5					10					15	
Ser	Leu	Ala	Gly	Gly	Ala	Asp	Leu	Glu	Asn	Lys	Val	Ile	Thr	Val	His
			20					25					30		
Arg	Val	Phe	Pro	Asn	Gly	Leu	Ala	Ser	Gln	Glu	Gly	Thr	Ile	Gln	Lys
		35					40					45			
Gly	Asn	Glu	Val	Leu	Ser	Ile	Asn	Gly	Lys	Ser	Leu	Lys	Gly	Thr	Thr
		50				55					60				
His	His	Asp	Ala	Leu	Ala	Ile	Leu	Arg	Gln	Ala	Arg	Glu	Pro	Arg	Gln
65					70					75					80
Ala	Val	Ile	Val	Thr	Arg	Lys	Leu	Thr	Pro	Glu	Glu	Phe	Ile	Val	Thr
				85					90					95	

Asp

<210> 174
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 174
 Thr Ala Glu Ala Thr Val Cys Thr Val Thr Leu Glu Lys Met Ser Ala
 1 5 10 15
 Gly Leu Gly Phe Ser Leu Glu Gly Gly Lys Gly Ser Leu His Gly Asp
 20 25 30
 Lys Pro Leu Thr Ile Asn Arg Ile Phe Lys Gly Ala Ala Ser Glu Gln
 35 40 45
 Ser Glu Thr Val Gln Pro Gly Asp Glu Ile Leu Gln Leu Gly Gly Thr
 50 55 60
 Ala Met Gln Gly Leu Thr Arg Phe Glu Ala Trp Asn Ile Ile Lys Ala
 65 70 75 80
 Leu Pro Asp Gly Pro Val Thr Ile Val Ile Arg Arg Lys Ser Leu Gln
 85 90 95
 Ser Lys

<210> 175
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 175
 Leu Glu Tyr Glu Ile Thr Leu Glu Arg Gly Asn Ser Gly Leu Gly Phe
 1 5 10 15
 Ser Ile Ala Gly Gly Thr Asp Asn Pro His Ile Gly Asp Asp Pro Ser
 20 25 30
 Ile Phe Ile Thr Lys Ile Ile Pro Gly Gly Ala Ala Ala Gln Asp Gly
 35 40 45
 Arg Leu Arg Val Asn Asp Ser Ile Leu Phe Val Asn Glu Val Asp Val
 50 55 60
 Arg Glu Val Thr His Ser Ala Ala Val Glu Ala Leu Lys Glu Ala Gly
 65 70 75 80
 Ser Ile Val Arg Leu Tyr Val Met Arg Arg Lys Pro Pro Ala Glu Asn
 85 90 95
 Ser Ser

<210> 176
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 176
 His Val Met Arg Arg Lys Pro Pro Ala Glu Lys Val Met Glu Ile Lys
 1 5 10 15
 Leu Ile Lys Gly Pro Lys Gly Leu Gly Phe Ser Ile Ala Gly Gly Val
 20 25 30
 Gly Asn Gln His Ile Pro Gly Asp Asn Ser Ile Tyr Val Thr Lys Ile
 35 40 45
 Ile Glu Gly Gly Ala Ala His Lys Asp Gly Arg Leu Gln Ile Gly Asp
 50 55 60
 Lys Ile Leu Ala Val Asn Ser Val Gly Leu Glu Asp Val Met His Glu
 65 70 75 80
 Asp Ala Val Ala Ala Leu Lys Asn Thr Tyr Asp Val Val Tyr Leu Lys
 85 90 95
 Val Ala Lys Pro Ser Asn Ala Tyr Leu
 100 105

<210> 177
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 177
 Arg Glu Asp Ile Pro Arg Glu Pro Arg Arg Ile Val Ile His Arg Gly
 1 5 10 15
 Ser Thr Gly Leu Gly Phe Asn Ile Val Gly Gly Glu Asp Gly Glu Gly
 20 25 30
 Ile Phe Ile Ser Phe Ile Leu Ala Gly Gly Pro Ala Asp Leu Ser Gly
 35 40 45
 Glu Leu Arg Lys Gly Asp Gln Ile Leu Ser Val Asn Gly Val Asp Leu
 50 55 60
 Arg Asn Ala Ser His Glu Gln Ala Ala Ile Ala Leu Lys Asn Ala Gly
 65 70 75 80
 Gln Thr Val Thr Ile Ile Ala Gln Tyr Lys Pro Glu Phe Ile Val Thr
 85 90 95
 Asp

<210> 178
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 178
 Leu Ile Arg Ile Thr Pro Asp Glu Asp Gly Lys Phe Gly Phe Asn Leu
 1 5 10 15
 Lys Gly Gly Val Asp Gln Lys Met Pro Leu Val Val Ser Arg Ile Asn
 20 25 30
 Pro Glu Ser Pro Ala Asp Thr Cys Ile Pro Lys Leu Asn Glu Gly Asp
 35 40 45
 Gln Ile Val Leu Ile Asn Gly Arg Asp Ile Ser Glu His Thr His Asp
 50 55 60
 Gln Val Val Met Phe Ile Lys Ala Ser Arg Glu Ser His Ser Arg Glu
 65 70 75 80
 Leu Ala Leu Val Ile Arg Arg Arg
 85

<210> 179
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 179
 Ile Arg Met Lys Pro Asp Glu Asn Gly Arg Phe Gly Phe Asn Val Lys
 1 5 10 15
 Gly Gly Tyr Asp Gln Lys Met Pro Val Ile Val Ser Arg Val Ala Pro
 20 25 30
 Gly Thr Pro Ala Asp Leu Cys Val Pro Arg Leu Asn Glu Gly Asp Gln
 35 40 45
 Val Val Leu Ile Asn Gly Arg Asp Ile Ala Glu His Thr His Asp Gln
 50 55 60
 Val Val Leu Phe Ile Lys Ala Ser Cys Glu Arg His Ser Gly Glu Leu
 65 70 75 80
 Met Leu Leu Val Arg Pro Asn Ala

<210> 180
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 180
 Pro Glu Arg Glu Ile Thr Leu Val Asn Leu Lys Lys Asp Ala Lys Tyr
 1 5 10 15
 Gly Leu Gly Phe Gln Ile Ile Gly Gly Glu Lys Met Gly Arg Leu Asp
 20 25 30
 Leu Gly Ile Phe Ile Ser Ser Val Ala Pro Gly Gly Pro Ala Asp Phe
 35 40 45
 His Gly Cys Leu Lys Pro Gly Asp Arg Leu Ile Ser Val Asn Ser Val
 50 55 60
 Ser Leu Glu Gly Val Ser His His Ala Ala Ile Glu Ile Leu Gln Asn
 65 70 75 80
 Ala Pro Glu Asp Val Thr Leu Val Ile Ser Gln Pro Lys Glu Lys Ile
 85 90 95
 Ser Lys Val Pro Ser Thr Pro Val His Leu
 100 105

<210> 181
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 181
 Gly Asp Ile Phe Glu Val Glu Leu Ala Lys Asn Asp Asn Ser Leu Gly
 1 5 10 15
 Ile Ser Val Thr Gly Gly Val Asn Thr Ser Val Arg His Gly Gly Ile
 20 25 30
 Tyr Val Lys Ala Val Ile Pro Gln Gly Ala Ala Glu Ser Asp Gly Arg
 35 40 45
 Ile His Lys Gly Asp Arg Val Leu Ala Val Asn Gly Val Ser Leu Glu
 50 55 60
 Gly Ala Thr His Lys Gln Ala Val Glu Thr Leu Arg Asn Thr Gly Gln
 65 70 75 80
 Val Val His Leu Leu Leu Glu Lys Gly Gln Ser Pro Thr Ser Lys
 85 90 95

<210> 182
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 182
 Thr Glu Glu Asn Thr Phe Glu Val Lys Leu Phe Lys Asn Ser Ser Gly
 1 5 10 15
 Leu Gly Phe Ser Phe Ser Arg Glu Asp Asn Leu Ile Pro Glu Gln Ile
 20 25 30
 Asn Ala Ser Ile Val Arg Val Lys Lys Leu Phe Ala Gly Gln Pro Ala
 35 40 45
 Ala Glu Ser Gly Lys Ile Asp Val Gly Asp Val Ile Leu Lys Val Asn
 50 55 60
 Gly Ala Ser Leu Lys Gly Leu Ser Gln Gln Glu Val Ile Ser Ala Leu

65					70					75				80
Arg	Gly	Thr	Ala	Pro	Glu	Val	Phe	Leu	Leu	Leu	Cys	Arg	Pro	Pro
				85					90				95	
Gly	Val	Leu	Pro	Glu	Ile	Asp	Thr							
			100											

<210> 183
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 183															
Glu	Leu	Glu	Val	Glu	Leu	Leu	Ile	Thr	Leu	Ile	Lys	Ser	Glu	Lys	Ala
1				5					10					15	
Ser	Leu	Gly	Phe	Thr	Val	Thr	Lys	Gly	Asn	Gln	Arg	Ile	Gly	Cys	Tyr
			20					25					30		
Val	His	Asp	Val	Ile	Gln	Asp	Pro	Ala	Lys	Ser	Asp	Gly	Arg	Leu	Lys
		35					40					45			
Pro	Gly	Asp	Arg	Leu	Ile	Lys	Val	Asn	Asp	Thr	Asp	Val	Thr	Asn	Met
	50					55					60				
Thr	His	Thr	Asp	Ala	Val	Asn	Leu	Leu	Arg	Ala	Ala	Ser	Lys	Thr	Val
65					70					75					80
Arg	Leu	Val	Ile	Gly	Arg	Val	Leu	Glu	Leu	Pro	Arg	Ile	Pro	Met	Leu
				85					90					95	
Pro	His														

<210> 184
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 184															
Met	Leu	Pro	His	Leu	Leu	Pro	Asp	Ile	Thr	Leu	Thr	Cys	Asn	Lys	Glu
1				5					10					15	
Glu	Leu	Gly	Phe	Ser	Leu	Cys	Gly	Gly	His	Asp	Ser	Leu	Tyr	Gln	Val
			20					25					30		
Val	Tyr	Ile	Ser	Asp	Ile	Asn	Pro	Arg	Ser	Val	Ala	Ala	Ile	Glu	Gly
		35					40					45			
Asn	Leu	Gln	Leu	Leu	Asp	Val	Ile	His	Tyr	Val	Asn	Gly	Val	Ser	Thr
	50					55					60				
Gln	Gly	Met	Thr	Leu	Glu	Glu	Val	Asn	Arg	Ala	Leu	Asp	Met	Ser	Leu
65					70					75					80
Pro	Ser	Leu	Val	Leu	Lys	Ala	Thr	Arg	Asn	Asp	Leu	Pro	Val		
				85					90						

<210> 185
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 185															
Arg	Pro	Ser	Pro	Pro	Arg	Val	Arg	Ser	Val	Glu	Val	Ala	Arg	Gly	Arg
1				5					10					15	
Ala	Gly	Tyr	Gly	Phe	Thr	Leu	Ser	Gly	Gln	Ala	Pro	Cys	Val	Leu	Ser
			20					25					30		
Cys	Val	Met	Arg	Gly	Ser	Pro	Ala	Asp	Phe	Val	Gly	Leu	Arg	Ala	Gly

		20						25				30					
Glu	Leu	Gln	Leu	Arg	Glu	Pro	Ser	Phe	Pro	Asp	Val	Gln	His	Gly	Val		
		35					40					45					
Leu	Ile	His	Lys	Val	Ile	Leu	Gly	Ser	Pro	Ala	His	Arg	Ala	Gly	Leu		
		50				55						60					
Arg	Pro	Gly	Asp	Val	Ile	Leu	Ala	Ile	Gly	Glu	Gln	Met	Val	Gln	Asn		
65					70					75					80		
Ala	Glu	Asp	Val	Tyr	Glu	Ala	Val	Arg	Thr	Gln	Ser	Gln	Leu	Ala	Val		
				85					90						95		
Gln	Ile	Arg	Arg	Gly	Arg	Glu	Thr	Leu	Thr	Leu	Tyr	Val					
			100					105									

<210> 189
 <211> 111
 <212> PRT
 <213> Homo sapiens

Glu	Glu	Lys	Thr	Val	Val	Leu	Gln	Lys	Lys	Asp	Asn	Glu	Gly	Phe	Gly		
1				5					10					15			
Phe	Val	Leu	Arg	Gly	Ala	Lys	Ala	Asp	Thr	Pro	Ile	Glu	Glu	Phe	Thr		
			20					25					30				
Pro	Thr	Pro	Ala	Phe	Pro	Ala	Leu	Gln	Tyr	Leu	Glu	Ser	Val	Asp	Glu		
		35				40						45					
Gly	Gly	Val	Ala	Trp	Gln	Ala	Gly	Leu	Arg	Thr	Gly	Asp	Phe	Leu	Ile		
	50				55						60						
Glu	Val	Asn	Asn	Glu	Asn	Val	Val	Lys	Val	Gly	His	Arg	Gln	Val	Val		
65				70						75					80		
Asn	Met	Ile	Arg	Gln	Gly	Gly	Asn	His	Leu	Val	Leu	Lys	Val	Val	Thr		
				85				90						95			
Val	Thr	Arg	Asn	Leu	Asp	Pro	Asp	Asp	Thr	Ala	Arg	Lys	Lys	Ala			
			100					105					110				

<210> 190
 <211> 110
 <212> PRT
 <213> Homo sapiens

Ser	Asp	Tyr	Val	Ile	Asp	Asp	Lys	Val	Ala	Val	Leu	Gln	Lys	Arg	Asp		
1				5					10					15			
His	Glu	Gly	Phe	Gly	Phe	Val	Leu	Arg	Gly	Ala	Lys	Ala	Glu	Thr	Pro		
			20					25					30				
Ile	Glu	Glu	Phe	Thr	Pro	Thr	Pro	Ala	Phe	Pro	Ala	Leu	Gln	Tyr	Leu		
		35				40						45					
Glu	Ser	Val	Asp	Val	Glu	Gly	Val	Ala	Trp	Arg	Ala	Gly	Leu	Arg	Thr		
	50				55						60						
Gly	Asp	Phe	Leu	Ile	Glu	Val	Asn	Gly	Val	Asn	Val	Val	Lys	Val	Gly		
65				70						75					80		
His	Lys	Gln	Val	Val	Ala	Leu	Ile	Arg	Gln	Gly	Gly	Asn	Arg	Leu	Val		
				85				90						95			
Met	Lys	Val	Val	Ser	Val	Thr	Arg	Lys	Pro	Glu	Glu	Asp	Gly				
			100					105					110				

<210> 191
 <211> 91
 <212> PRT

<213> Homo sapiens

<400> 191

Ile	Tyr	Leu	Glu	Ala	Phe	Leu	Glu	Gly	Gly	Ala	Pro	Trp	Gly	Phe	Thr
1				5					10					15	
Leu	Lys	Gly	Gly	Leu	Glu	His	Gly	Glu	Pro	Leu	Ile	Ile	Ser	Lys	Val
		20						25					30		
Glu	Glu	Gly	Gly	Lys	Ala	Asp	Thr	Leu	Ser	Ser	Lys	Leu	Gln	Ala	Gly
		35					40					45			
Asp	Glu	Val	Val	His	Ile	Asn	Glu	Val	Thr	Leu	Ser	Ser	Ser	Arg	Lys
	50					55				60					
Glu	Ala	Val	Ser	Leu	Val	Lys	Gly	Ser	Tyr	Lys	Thr	Leu	Arg	Leu	Val
65					70				75						80
Val	Arg	Arg	Asp	Val	Cys	Thr	Asp	Pro	Gly	His					
				85					90						

<210> 192

<211> 83

<212> PRT

<213> Homo sapiens

<400> 192

Ile	Arg	Leu	Cys	Arg	Leu	Val	Arg	Gly	Glu	Gln	Gly	Tyr	Gly	Phe	His
1				5					10					15	
Leu	His	Gly	Glu	Lys	Gly	Arg	Arg	Gly	Gln	Phe	Ile	Arg	Arg	Val	Glu
		20						25					30		
Pro	Gly	Ser	Pro	Ala	Glu	Ala	Ala	Ala	Leu	Arg	Ala	Gly	Asp	Arg	Leu
		35					40					45			
Val	Glu	Val	Asn	Gly	Val	Asn	Val	Glu	Gly	Glu	Thr	His	His	Gln	Val
	50					55				60					
Val	Gln	Arg	Ile	Lys	Ala	Val	Glu	Gly	Gln	Thr	Arg	Leu	Leu	Val	Val
65					70				75						80
Asp	Gln	Asn													

<210> 193

<211> 84

<212> PRT

<213> Homo sapiens

<400> 193

Ile	Arg	His	Leu	Arg	Lys	Gly	Pro	Gln	Gly	Tyr	Gly	Phe	Asn	Leu	His
1				5					10					15	
Ser	Asp	Lys	Ser	Arg	Pro	Gly	Gln	Tyr	Ile	Arg	Ser	Val	Asp	Pro	Gly
		20						25					30		
Ser	Pro	Ala	Ala	Arg	Ser	Gly	Leu	Arg	Ala	Gln	Asp	Arg	Leu	Ile	Glu
		35				40					45				
Val	Asn	Gly	Gln	Asn	Val	Glu	Gly	Leu	Arg	His	Ala	Glu	Val	Val	Ala
	50					55				60					
Ser	Ile	Lys	Ala	Arg	Glu	Asp	Glu	Ala	Arg	Leu	Leu	Val	Val	Asp	Pro
65					70				75						80
Glu	Thr	Asp	Glu												

<210> 194

<211> 92

<212> PRT

<213> Homo sapiens

<400> 194

Pro	Gly	Val	Arg	Glu	Ile	His	Leu	Cys	Lys	Asp	Glu	Arg	Gly	Lys	Thr
1				5					10					15	
Gly	Leu	Arg	Leu	Arg	Lys	Val	Asp	Gln	Gly	Leu	Phe	Val	Gln	Leu	Val
			20					25					30		
Gln	Ala	Asn	Thr	Pro	Ala	Ser	Leu	Val	Gly	Leu	Arg	Phe	Gly	Asp	Gln
		35					40					45			
Leu	Leu	Gln	Ile	Asp	Gly	Arg	Asp	Cys	Ala	Gly	Trp	Ser	Ser	His	Lys
	50					55					60				
Ala	His	Gln	Val	Val	Lys	Lys	Ala	Ser	Gly	Asp	Lys	Ile	Val	Val	Val
65					70					75					80
Val	Arg	Asp	Arg	Pro	Phe	Gln	Arg	Thr	Val	Thr	Met				
				85					90						

<210> 195

<211> 90

<212> PRT

<213> Homo sapiens

<400> 195

Pro	Phe	Gln	Arg	Thr	Val	Thr	Met	His	Lys	Asp	Ser	Met	Gly	His	Val
1				5					10					15	
Gly	Phe	Val	Ile	Lys	Lys	Gly	Lys	Ile	Val	Ser	Leu	Val	Lys	Gly	Ser
			20					25					30		
Ser	Ala	Ala	Arg	Asn	Gly	Leu	Leu	Thr	Asn	His	Tyr	Val	Cys	Glu	Val
		35					40					45			
Asp	Gly	Gln	Asn	Val	Ile	Gly	Leu	Lys	Asp	Lys	Lys	Ile	Met	Glu	Ile
	50					55					60				
Leu	Ala	Thr	Ala	Gly	Asn	Val	Val	Thr	Leu	Thr	Ile	Ile	Pro	Ser	Val
65					70					75					80
Ile	Tyr	Glu	His	Ile	Val	Glu	Phe	Ile	Val						
				85					90						

<210> 196

<211> 109

<212> PRT

<213> Homo sapiens

<400> 196

Leu	Lys	Glu	Lys	Thr	Val	Leu	Leu	Gln	Lys	Lys	Asp	Ser	Glu	Gly	Phe
1				5					10					15	
Gly	Phe	Val	Leu	Arg	Gly	Ala	Lys	Ala	Gln	Thr	Pro	Ile	Glu	Glu	Phe
			20					25					30		
Thr	Pro	Thr	Pro	Ala	Phe	Pro	Ala	Leu	Gln	Tyr	Leu	Glu	Ser	Val	Asp
		35					40					45			
Glu	Gly	Gly	Val	Ala	Trp	Arg	Ala	Gly	Leu	Arg	Met	Gly	Asp	Phe	Leu
	50					55					60				
Ile	Glu	Val	Asn	Gly	Gln	Asn	Val	Val	Lys	Val	Gly	His	Arg	Gln	Val
65					70					75					80
Val	Asn	Met	Ile	Arg	Gln	Gly	Gly	Asn	Thr	Leu	Met	Val	Lys	Val	Val
				85					90					95	
Met	Val	Thr	Arg	His	Pro	Asp	Met	Asp	Glu	Ala	Val	Gln			
			100					105							

<210> 197

<211> 88
 <212> PRT
 <213> Homo sapiens

<400> 197
 Leu Glu Ile Lys Gln Gly Ile Arg Glu Val Ile Leu Cys Lys Asp Gln
 1 5 10 15
 Asp Gly Lys Ile Gly Leu Arg Leu Lys Ser Ile Asp Asn Gly Ile Phe
 20 25 30
 Val Gln Leu Val Gln Ala Asn Ser Pro Ala Ser Leu Val Gly Leu Arg
 35 40 45
 Phe Gly Asp Gln Val Leu Gln Ile Asn Gly Glu Asn Cys Ala Gly Trp
 50 55 60
 Ser Ser Asp Lys Ala His Lys Val Leu Lys Gln Ala Phe Gly Glu Lys
 65 70 75 80
 Ile Thr Met Arg Ile His Arg Asp
 85

<210> 198
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 198
 Arg Asp Arg Pro Phe Glu Arg Thr Ile Thr Met His Lys Asp Ser Thr
 1 5 10 15
 Gly His Val Gly Phe Ile Phe Lys Asn Gly Lys Ile Thr Ser Ile Val
 20 25 30
 Lys Asp Ser Ser Ala Ala Arg Asn Gly Leu Leu Thr Glu His Asn Ile
 35 40 45
 Cys Glu Ile Asn Gly Gln Asn Val Ile Gly Leu Lys Asp Ser Gln Ile
 50 55 60
 Ala Asp Ile Leu Ser Thr Ser Gly Asn Ser Ser
 65 70 75

<210> 199
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 199
 Gln Arg Arg Arg Val Thr Val Arg Lys Ala Asp Ala Gly Gly Leu Gly
 1 5 10 15
 Ile Ser Ile Lys Gly Gly Arg Glu Asn Lys Met Pro Ile Leu Ile Ser
 20 25 30
 Lys Ile Phe Lys Gly Leu Ala Ala Asp Gln Thr Glu Ala Leu Phe Val
 35 40 45
 Gly Asp Ala Ile Leu Ser Val Asn Gly Glu Asp Leu Ser Ser Ala Thr
 50 55 60
 His Asp Glu Ala Val Gln Val Leu Lys Lys Thr Gly Lys Glu Val Val
 65 70 75 80
 Leu Glu Val Lys Tyr Met Lys Asp Val Ser Pro Tyr Phe Lys
 85 90

<210> 200
 <211> 89
 <212> PRT

<213> Homo sapiens

<400> 200

Ile Arg Val Val Lys Gln Glu Ala Gly Gly Leu Gly Ile Ser Ile Lys
1 5 10 15
Gly Gly Arg Glu Asn Arg Met Pro Ile Leu Ile Ser Lys Ile Phe Pro
20 25 30
Gly Leu Ala Ala Asp Gln Ser Arg Ala Leu Arg Leu Gly Asp Ala Ile
35 40 45
Leu Ser Val Asn Gly Thr Asp Leu Arg Gln Ala Thr His Asp Gln Ala
50 55 60
Val Gln Ala Leu Lys Arg Ala Gly Lys Glu Val Leu Leu Glu Val Lys
65 70 75 80
Phe Ile Arg Glu Phe Ile Val Thr Asp
85

<210> 201

<211> 101

<212> PRT

<213> Homo sapiens

<400> 201

Glu Pro Phe Tyr Ser Gly Glu Arg Thr Val Thr Ile Arg Arg Gln Thr
1 5 10 15
Val Gly Gly Phe Gly Leu Ser Ile Lys Gly Gly Ala Glu His Asn Ile
20 25 30
Pro Val Val Val Ser Lys Ile Ser Lys Glu Gln Arg Ala Glu Leu Ser
35 40 45
Gly Leu Leu Phe Ile Gly Asp Ala Ile Leu Gln Ile Asn Gly Ile Asn
50 55 60
Val Arg Lys Cys Arg His Glu Glu Val Val Gln Val Leu Arg Asn Ala
65 70 75 80
Gly Glu Glu Val Thr Leu Thr Val Ser Phe Leu Lys Arg Ala Pro Ala
85 90 95
Phe Leu Lys Leu Pro
100

<210> 202

<211> 99

<212> PRT

<213> Homo sapiens

<400> 202

Ser His Gln Gly Arg Asn Arg Arg Thr Val Thr Leu Arg Arg Gln Pro
1 5 10 15
Val Gly Gly Leu Gly Leu Ser Ile Lys Gly Gly Ser Glu His Asn Val
20 25 30
Pro Val Val Ile Ser Lys Ile Phe Glu Asp Gln Ala Ala Asp Gln Thr
35 40 45
Gly Met Leu Phe Val Gly Asp Ala Val Leu Gln Val Asn Gly Ile His
50 55 60
Val Glu Asn Ala Thr His Glu Glu Val Val His Leu Leu Arg Asn Ala
65 70 75 80
Gly Asp Glu Val Thr Ile Thr Val Glu Tyr Leu Arg Glu Ala Pro Ala
85 90 95
Phe Leu Lys

<210> 203
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 203
 Arg Gly Glu Thr Lys Glu Val Glu Val Thr Lys Thr Glu Asp Ala Leu
 1 5 10 15
 Gly Leu Thr Ile Thr Asp Asn Gly Ala Gly Tyr Ala Phe Ile Lys Arg
 20 25 30
 Ile Lys Glu Gly Ser Ile Ile Asn Arg Ile Glu Ala Val Cys Val Gly
 35 40 45
 Asp Ser Ile Glu Ala Ile Asn Asp His Ser Ile Val Gly Cys Arg His
 50 55 60
 Tyr Glu Val Ala Lys Met Leu Arg Glu Leu Pro Lys Ser Gln Pro Phe
 65 70 75 80
 Thr Leu Arg Leu Val Gln Pro Lys Arg Ala Phe
 85 90

<210> 204
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 204
 His Ser Ile His Ile Glu Lys Ser Asp Thr Ala Ala Asp Thr Tyr Gly
 1 5 10 15
 Phe Ser Leu Ser Ser Val Glu Glu Asp Gly Ile Arg Arg Leu Tyr Val
 20 25 30
 Asn Ser Val Lys Glu Thr Gly Leu Ala Ser Lys Lys Gly Leu Lys Ala
 35 40 45
 Gly Asp Glu Ile Leu Glu Ile Asn Asn Arg Ala Ala Asp Ala Leu Asn
 50 55 60
 Ser Ser Met Leu Lys Asp Phe Leu Ser Gln Pro Ser Leu Gly Leu Leu
 65 70 75 80
 Val Arg Thr Tyr Pro Glu Leu Glu
 85

<210> 205
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 205
 Pro Leu Asn Val Tyr Asp Val Gln Leu Thr Lys Thr Gly Ser Val Cys
 1 5 10 15
 Asp Phe Gly Phe Ala Val Thr Ala Gln Val Asp Glu Arg Gln His Leu
 20 25 30
 Ser Arg Ile Phe Ile Ser Asp Val Leu Pro Asp Gly Leu Ala Tyr Gly
 35 40 45
 Glu Gly Leu Arg Lys Gly Asn Glu Ile Met Thr Leu Asn Gly Glu Ala
 50 55 60
 Val Ser Asp Leu Asp Leu Lys Gln Met Glu Ala Leu Phe Ser Glu Lys
 65 70 75 80
 Ser Val Gly Leu Thr Leu Ile Ala Arg Pro Pro Asp Thr Lys Ala Thr
 85 90 95
 Leu

<210> 206
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 206
 Gln Arg Val Glu Ile His Lys Leu Arg Gln Gly Glu Asn Leu Ile Leu
 1 5 10 15
 Gly Phe Ser Ile Gly Gly Gly Ile Asp Gln Asp Pro Ser Gln Asn Pro
 20 25 30
 Phe Ser Glu Asp Lys Thr Asp Lys Gly Ile Tyr Val Thr Arg Val Ser
 35 40 45
 Glu Gly Gly Pro Ala Glu Ile Ala Gly Leu Gln Ile Gly Asp Lys Ile
 50 55 60
 Met Gln Val Asn Gly Trp Asp Met Thr Met Val Thr His Asp Gln Ala
 65 70 75 80
 Arg Lys Arg Leu Thr Lys Arg Ser Glu Glu Val Val Arg Leu Leu Val
 85 90 95
 Thr Arg Gln Ser Leu Gln Lys
 100

<210> 207
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 207
 Arg Lys Glu Val Glu Val Phe Lys Ser Glu Asp Ala Leu Gly Leu Thr
 1 5 10 15
 Ile Thr Asp Asn Gly Ala Gly Tyr Ala Phe Ile Lys Arg Ile Lys Glu
 20 25 30
 Gly Ser Val Ile Asp His Ile His Leu Ile Ser Val Gly Asp Met Ile
 35 40 45
 Glu Ala Ile Asn Gly Gln Ser Leu Leu Gly Cys Arg His Tyr Glu Val
 50 55 60
 Ala Arg Leu Leu Lys Glu Leu Pro Arg Gly Arg Thr Phe Thr Leu Lys
 65 70 75 80
 Leu Thr Glu Pro Arg Lys
 85

<210> 208
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 208
 His Ser His Pro Arg Val Val Glu Leu Pro Lys Thr Asp Glu Gly Leu
 1 5 10 15
 Gly Phe Asn Val Met Gly Gly Lys Glu Gln Asn Ser Pro Ile Tyr Ile
 20 25 30
 Ser Arg Ile Ile Pro Gly Gly Val Ala Glu Arg His Gly Gly Leu Lys
 35 40 45
 Arg Gly Asp Gln Leu Leu Ser Val Asn Gly Val Ser Val Glu Gly Glu
 50 55 60
 His His Glu Lys Ala Val Glu Leu Leu Lys Ala Ala Lys Asp Ser Val

50						55					60				
Gln	Ala	Leu	Ser	Asn	Ser	Val	Gly	Glu	Ile	His	Met	Lys	Thr	Met	Pro
65					70					75					80
Ala	Ala	Met	Phe	Arg	Leu	Leu	Thr	Gly	Gln	Glu	Asn	Ser	Ser		
				85					90						

<210> 212
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 212

Ile	Trp	Glu	Gln	His	Thr	Val	Thr	Leu	His	Arg	Ala	Pro	Gly	Phe	Gly
1				5					10					15	
Phe	Gly	Ile	Ala	Ile	Ser	Gly	Gly	Arg	Asp	Asn	Pro	His	Phe	Gln	Ser
			20					25					30		
Gly	Glu	Thr	Ser	Ile	Val	Ile	Ser	Asp	Val	Leu	Lys	Gly	Gly	Pro	Ala
		35					40					45			
Glu	Gly	Gln	Leu	Gln	Glu	Asn	Asp	Arg	Val	Ala	Met	Val	Asn	Gly	Val
	50					55					60				
Ser	Met	Asp	Asn	Val	Glu	His	Ala	Phe	Ala	Val	Gln	Gln	Leu	Arg	Lys
65					70					75					80
Ser	Gly	Lys	Asn	Ala	Lys	Ile	Thr	Ile	Arg	Arg	Lys	Lys	Lys	Val	Gln
			85						90					95	
Ile	Pro	Asn	Ser	Ser											
			100												

<210> 213
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 213

Ile	Ser	Ser	Gln	Pro	Ala	Lys	Pro	Thr	Lys	Val	Thr	Leu	Val	Lys	Ser
1				5					10					15	
Arg	Lys	Asn	Glu	Glu	Tyr	Gly	Leu	Arg	Leu	Ala	Ser	His	Ile	Phe	Val
		20						25					30		
Lys	Glu	Ile	Ser	Gln	Asp	Ser	Leu	Ala	Ala	Arg	Asp	Gly	Asn	Ile	Gln
		35					40					45			
Glu	Gly	Asp	Val	Val	Leu	Lys	Ile	Asn	Gly	Thr	Val	Thr	Glu	Asn	Met
	50					55					60				
Ser	Leu	Thr	Asp	Ala	Lys	Thr	Leu	Ile	Glu	Arg	Ser	Lys	Gly	Lys	Leu
65					70					75					80
Lys	Met	Val	Val	Gln	Arg	Asp	Arg	Ala	Thr	Leu	Leu	Asn	Ser	Ser	
			85						90					95	

<210> 214
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 214

Ile	Arg	Met	Lys	Leu	Val	Lys	Phe	Arg	Lys	Gly	Asp	Ser	Val	Gly	Leu
1				5					10					15	
Arg	Leu	Ala	Gly	Gly	Asn	Asp	Val	Gly	Ile	Phe	Val	Ala	Gly	Val	Leu
		20						25					30		
Glu	Asp	Ser	Pro	Ala	Ala	Lys	Glu	Gly	Leu	Glu	Glu	Gly	Asp	Gln	Ile

50 55 60
 Asp Ala Val Leu Tyr Leu Leu Glu Ile Pro Lys Gly Glu Met Val Thr
 65 70 75 80
 Ile Leu Ala Gln Ser Arg Ala Asp Val Tyr
 85 90

<210> 218
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 218
 Ile Pro Gly Asn Ser Thr Ile Trp Glu Gln His Thr Ala Thr Leu Ser
 1 5 10 15
 Lys Asp Pro Arg Arg Gly Phe Gly Ile Ala Ile Ser Gly Gly Arg Asp
 20 25 30
 Arg Pro Gly Gly Ser Met Val Val Ser Asp Val Val Pro Gly Gly Pro
 35 40 45
 Ala Glu Gly Arg Leu Gln Thr Gly Asp His Ile Val Met Val Asn Gly
 50 55 60
 Val Ser Met Glu Asn Ala Thr Ser Ala Phe Ala Ile Gln Ile Leu Lys
 65 70 75 80
 Thr Cys Thr Lys Met Ala Asn Ile Thr Val Lys Arg Pro Arg Arg Ile
 85 90 95
 His Leu Pro Ala Glu Phe Ile Val Thr Asp
 100 105

<210> 219
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 219
 Gln Asp Val Gln Met Lys Pro Val Lys Ser Val Leu Val Lys Arg Arg
 1 5 10 15
 Asp Ser Glu Glu Phe Gly Val Lys Leu Gly Ser Gln Ile Phe Ile Lys
 20 25 30
 His Ile Thr Asp Ser Gly Leu Ala Ala Arg His Arg Gly Leu Gln Glu
 35 40 45
 Gly Asp Leu Ile Leu Gln Ile Asn Gly Val Ser Ser Gln Asn Leu Ser
 50 55 60
 Leu Asn Asp Thr Arg Arg Leu Ile Glu Lys Ser Glu Gly Lys Leu Ser
 65 70 75 80
 Leu Leu Val Leu Arg Asp Arg Gly Gln Phe Leu Val Asn Ile Pro Asn
 85 90 95
 Ser Ser

<210> 220
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 220
 Arg Gly Tyr Ser Pro Asp Thr Arg Val Val Arg Phe Leu Lys Gly Lys
 1 5 10 15
 Ser Ile Gly Leu Arg Leu Ala Gly Gly Asn Asp Val Gly Ile Phe Val

1 5 10

<210> 226
<211> 10
<212> PRT
<213> Homo sapiens

<400> 226
Arg Gln Cys Lys His Phe Tyr Asn Asp Trp
1 5 10

<210> 227
<211> 10
<212> PRT
<213> Homo sapiens

<400> 227
Cys Arg Asn Cys Ile Ser His Glu Gly Arg
1 5 10

<210> 228
<211> 10
<212> PRT
<213> Homo sapiens

<400> 228
Cys Cys Arg Asn Cys Tyr Glu His Glu Gly
1 5 10

<210> 229
<211> 10
<212> PRT
<213> Homo sapiens

<400> 229
Ser Ser Arg Thr Arg Arg Glu Thr Gln Leu
1 5 10

<210> 230
<211> 10
<212> PRT
<213> Homo sapiens

<400> 230
Arg Leu Gln Arg Arg Arg Glu Thr Gln Val
1 5 10

<210> 231
<211> 10
<212> PRT
<213> Homo sapiens

<400> 231
Trp Arg Arg Pro Arg Thr Glu Thr Gln Val

1	5	10
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<210> 232
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 232
 Trp Lys Pro Thr Arg Arg Glu Thr Glu Val
 1 5 10

<210> 233
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 233
 Arg Arg Thr Leu Arg Arg Glu Thr Gln Val
 1 5 10

<210> 234
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 234
 Arg Arg Leu Thr Arg Arg Glu Thr Gln Val
 1 5 10

<210> 235
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 235
 Arg Leu Arg Arg Arg Arg Glu Thr Gln Val
 1 5 10

<210> 236
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 236
 Arg Leu Gln Arg Arg Asn Glu Thr Gln Val
 1 5 10

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 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 237
 Arg Leu Gln Arg Arg Arg Val Thr Gln Val

1	5	10
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<210> 238
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<400> 238
 Thr Ser Arg Glu Pro Arg Glu Ser Thr Val
 1 5 10

<210> 239
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<400> 239
 Gln Arg Gln Ala Arg Ser Glu Thr Leu Val
 1 5 10

<210> 240
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 <212> PRT
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<400> 240
 Arg Leu Gln Arg Arg Arg Glu Thr Gln Val
 1 5 10

<210> 241
 <211> 10
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<400> 241
 Arg Leu Gln Arg Arg Arg Glu Thr Ala Leu
 1 5 10

<210> 242
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<400> 242
 Thr Ser Arg Gln Ala Thr Glu Ser Thr Val
 1 5 10

<210> 243
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<400> 243
 Arg Arg Arg Thr Arg Gln Glu Thr Gln Val

1	5	10
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<210> 244
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<400> 244
 Arg Arg Arg Glu Ala Thr Glu Thr Gln Val
 1 5 10

<210> 245
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<400> 245
 Arg Pro Arg Arg Gln Thr Glu Thr Gln Val
 1 5 10

<210> 246
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<400> 246
 Arg His Thr Thr Ala Thr Glu Ser Ala Val
 1 5 10

<210> 247
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<400> 247
 Thr Ser Arg Gln Ala Thr Glu Ser Thr Val
 1 5 10

<210> 248
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<400> 248
 Arg Cys Trp Arg Pro Ser Ala Thr Val Val
 1 5 10

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<400> 249
 Pro Pro Arg Gln Arg Ser Glu Thr Gln Val

<210> 250
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<400> 250
aaaagatcta caatactatg gcgc 24

<210> 251
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<212> DNA
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<400> 251
agggaattcc agacttaata ttatac 26

<210> 252
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<400> 252
aaaggatcca ttttatgcac caaaag 26

<210> 253
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<400> 253
atggaattct atctccatgc atgattac 28

<210> 254
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<212> DNA
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<400> 254
gaggaattca ccacaatact atggcg 26

<210> 255
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<212> DNA
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<400> 255
aggagatctc atacttaata ttatac 26

<210> 256
<211> 27
<212> DNA
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<400> 256
ttgagatctt cagcgtcggtt ggagtcg 27

<210> 257

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 <400> 257
 aaagaattca ttttatgcac caaaag 26

 <210> 258
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 <400> 258
 atgggatcct atctccatgc atgattac 28

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 ctgggatcct catcaacgtg ttcttgatga tc 32

 <210> 260
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 aagaaagctt tttatgcacc aaaagag 27

 <210> 261
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 aatcaagctt tatctccatg catgattac 29

 <210> 262
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<210> 270 <211> 27 <212> DNA <213> Homo sapiens	
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<210> 272	

<211> 225
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 <213> Homo sapiens

<400> 272
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 1 5 10 15
 Thr Arg Leu Leu Leu Glu Tyr Leu Glu Glu Lys Tyr Glu Glu His Leu
 20 25 30
 Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu
 35 40 45
 Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp Gly Asp Val Lys
 50 55 60
 Leu Thr Gln Ser Met Ala Ile Ile Arg Tyr Ile Ala Asp Lys His Asn
 65 70 75 80
 Met Leu Gly Gly Cys Pro Lys Glu Arg Ala Glu Ile Ser Met Leu Glu
 85 90 95
 Gly Ala Val Leu Asp Ile Arg Tyr Gly Val Ser Arg Ile Ala Tyr Ser
 100 105 110
 Lys Asp Phe Glu Thr Leu Lys Val Asp Phe Leu Ser Lys Leu Pro Glu
 115 120 125
 Met Leu Lys Met Phe Glu Asp Arg Leu Cys His Lys Thr Tyr Leu Asn
 130 135 140
 Gly Asp His Val Thr His Pro Asp Phe Met Leu Tyr Asp Ala Leu Asp
 145 150 155 160
 Val Val Leu Tyr Met Asp Pro Met Cys Leu Asp Ala Phe Pro Lys Leu
 165 170 175
 Val Cys Phe Lys Lys Arg Ile Glu Ala Ile Pro Gln Ile Asp Lys Tyr
 180 185 190
 Leu Lys Ser Ser Lys Tyr Ile Ala Trp Pro Leu Gln Gly Trp Gln Ala
 195 200 205
 Thr Phe Gly Gly Gly Asp His Pro Pro Lys Ser Asp Leu Ile Glu Gly
 210 215 220
 Arg
 225

<210> 273
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 <212> DNA
 <213> Homo sapiens

<400> 273
 aatggggatc cagctcatta aagg 24

<210> 274
 <211> 24
 <212> DNA
 <213> Homo sapiens

<400> 274
 atacatactt gtggaattcg ccac 24

<210> 275
 <211> 26
 <212> DNA
 <213> Homo sapiens

<400> 275
 cacgatccc ttctgagttg aaaggc 26

<210> 276
 <211> 30
 <212> DNA
 <213> Homo sapiens

 <400> 276
 tatgaattcc atctggatca aaaggcaatg 30

 <210> 277
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 <400> 277
 cagggatcca aagagttgaa attcacaagc 30

 <210> 278
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 <400> 278
 acggaattct gcagcgactg ccgcgtc 27

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 <211> 23
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 aggatccaga tgcctacat ccc 23

 <210> 280
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 <400> 280
 ggaattcatg gactgctgca cgg 23

 <210> 281
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 <400> 281
 agagaattct cgagatgtcc tacatccc 28

 <210> 282
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 <400> 282
 tgggaattcc taggacagca tggactg 27

 <210> 283
 <211> 25
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<213> Homo sapiens

<400> 283
ctaggatccg ggccagccgg tcacc 25

<210> 284
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<400> 284
gacgatccc cctgctgcac ggccttctg 29

<210> 285
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<400> 285
gacgaattcc cctgctgcac ggccttctg 29

<210> 286
<211> 25
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<400> 286
ctagaattcg ggccagccgg tcacc 25

<210> 287
<211> 82
<212> PRT
<213> Homo sapiens

<400> 287
Leu Ile Lys Gly Pro Lys Gly Leu Gly Phe Ser Ile Ala Gly Gly Val
1 5 10 15
Gly Asn Gln His Ile Pro Gly Asp Asn Ser Ile Tyr Val Thr Lys Ile
20 25 30
Ile Glu Gly Gly Ala Ala His Lys Asp Gly Lys Leu Gln Ile Gly Asp
35 40 45
Lys Leu Leu Ala Val Asn Asn Val Cys Leu Glu Glu Val Thr His Glu
50 55 60
Glu Ala Val Thr Ala Leu Lys Asn Thr Ser Asp Phe Val Tyr Leu Lys
65 70 75 80
Val Ala

<210> 288
<211> 101
<212> PRT
<213> Homo sapiens

<400> 288
Pro Ser Glu Leu Lys Gly Lys Phe Ile His Thr Lys Leu Arg Lys Ser
1 5 10 15
Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu Pro Asp Glu
20 25 30
Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala Ala Leu Asp

	35					40						45					
Gly	Lys	Met	Glu	Thr	Gly	Asp	Val	Ile	Val	Ser	Val	Asn	Asp	Thr	Cys		
	50					55					60						
Val	Leu	Gly	His	Thr	His	Ala	Gln	Val	Val	Lys	Ile	Phe	Gln	Ser	Ile		
65					70					75					80		
Pro	Ile	Gly	Ala	Ser	Val	Asp	Leu	Glu	Leu	Cys	Arg	Gly	Tyr	Pro	Leu		
				85					90					95			
Pro	Phe	Asp	Pro	Asp													
				100													

<210> 289
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 289																	
Gln	Arg	Val	Glu	Ile	His	Lys	Leu	Arg	Gln	Gly	Glu	Asn	Leu	Ile	Leu		
1				5					10					15			
Gly	Phe	Ser	Ile	Gly	Gly	Gly	Ile	Asp	Gln	Asp	Pro	Ser	Gln	Asn	Pro		
			20					25					30				
Phe	Ser	Glu	Asp	Lys	Thr	Asp	Lys	Gly	Ile	Tyr	Val	Thr	Arg	Val	Ser		
		35					40					45					
Glu	Gly	Gly	Pro	Ala	Glu	Ile	Ala	Gly	Leu	Gln	Ile	Gly	Asp	Lys	Ile		
	50					55					60						
Met	Gln	Val	Asn	Gly	Trp	Asp	Met	Thr	Met	Val	Thr	His	Asp	Gln	Ala		
65					70					75					80		
Arg	Lys	Arg	Leu	Thr	Lys	Arg	Ser	Glu	Glu	Val	Val	Arg	Leu	Leu	Val		
				85					90					95			
Thr	Arg	Gln	Ser	Leu	Gln												
				100													

<210> 290
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 290																	
Met	Ser	Tyr	Ile	Pro	Gly	Gln	Pro	Val	Thr	Ala	Val	Val	Gln	Arg	Val		
1				5					10					15			
Glu	Ile	His	Lys	Leu	Arg	Gln	Gly	Glu	Asn	Leu	Ile	Leu	Gly	Phe	Ser		
			20					25					30				
Ile	Gly	Gly	Gly	Ile	Asp	Gln	Asp	Pro	Ser	Gln	Asn	Pro	Phe	Ser	Glu		
		35					40					45					
Asp	Lys	Thr	Asp	Lys	Gly	Ile	Tyr	Val	Thr	Arg	Val	Ser	Glu	Gly	Gly		
	50					55					60						
Pro	Ala	Glu	Ile	Ala	Gly	Leu	Gln	Ile	Gly	Asp	Lys	Ile	Met	Gln	Val		
65					70					75					80		
Asn	Gly	Trp	Asp	Met	Thr	Met	Val	Thr	His	Asp	Gln	Ala	Arg	Lys	Arg		
				85					90					95			
Leu	Thr	Lys	Arg	Ser	Glu	Glu	Val	Val	Arg	Leu	Leu	Val	Thr	Arg	Gln		
			100					105					110				
Ser	Leu	Gln	Lys	Ala	Val	Gln	Gln	Ser	Met								
			115				120										

<210> 291
 <211> 125
 <212> PRT

<213> Homo sapiens

<400> 291

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Glu Met Ser Tyr Ile Pro Gly Gln Pro Val Thr Ala Val Val Gln Arg
 1              5              10              15
Val Glu Ile His Lys Leu Arg Gln Gly Glu Asn Leu Ile Leu Gly Phe
      20              25              30
Ser Ile Gly Gly Gly Ile Asp Gln Asp Pro Ser Gln Asn Pro Phe Ser
      35              40              45
Glu Asp Lys Thr Asp Lys Gly Ile Tyr Val Thr Arg Val Ser Glu Gly
      50              55              60
Gly Pro Ala Glu Ile Ala Gly Leu Gln Ile Gly Asp Lys Ile Met Gln
      65              70              75              80
Val Asn Gly Trp Asp Met Thr Met Val Thr His Asp Gln Ala Arg Lys
      85              90              95
Arg Leu Thr Lys Arg Ser Glu Glu Val Val Arg Leu Leu Val Thr Arg
      100             105             110
Gln Ser Leu Gln Lys Ala Val Gln Gln Ser Met Leu Ser
      115             120             125
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<210> 292

<211> 117

<212> PRT

<213> Homo sapiens

<400> 292

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Pro Gly Gln Pro Val Thr Ala Val Val Gln Arg Val Glu Ile His Lys
 1              5              10              15
Leu Arg Gln Gly Glu Asn Leu Ile Leu Gly Phe Ser Ile Gly Gly Gly
      20              25              30
Ile Asp Gln Asp Pro Ser Gln Asn Pro Phe Ser Glu Asp Lys Thr Asp
      35              40              45
Lys Gly Ile Tyr Val Thr Arg Val Ser Glu Gly Gly Pro Ala Glu Ile
      50              55              60
Ala Gly Leu Gln Ile Gly Asp Lys Ile Met Gln Val Asn Gly Trp Asp
      65              70              75              80
Met Thr Met Val Thr His Asp Gln Ala Arg Lys Arg Leu Thr Lys Arg
      85              90              95
Ser Glu Glu Val Val Arg Leu Leu Val Thr Arg Gln Ser Leu Gln Lys
      100             105             110
Ala Val Gln Gln Ser
      115
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<210> 293

<211> 72

<212> PRT

<213> Homo sapiens

<400> 293

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Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
 1              5              10              15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
      20              25              30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
      35              40              45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
      50              55              60
Gln Ser Ile Pro Ile Gly Ala Ser
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<210> 294
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 294
 Phe Ile His Thr Lys Leu Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr
 1 5 10 15
 Val Val Gly Gly Asp Glu Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu
 20 25 30
 Val Leu Asp Gly Pro Ala Ala Leu Asp Gly Lys Met Glu Thr Gly Asp
 35 40 45
 Val Ile Val Ser Val Asn Asp Thr Cys Val Leu Gly His Thr His Ala
 50 55 60
 Gln Val Val Lys Ile Phe Gln Ser Ile Pro Ile Gly
 65 70 75

<210> 295
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 295
 Phe Ile His Thr Lys Leu Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr
 1 5 10 15
 Val Val Gly Gly Asp Glu Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu
 20 25 30
 Val Leu Asp Gly Pro Ala Ala Leu Asp Gly Lys Met Glu Thr Gly Asp
 35 40 45
 Val Ile Val Ser Val Asn Asp Thr Cys Val Leu Gly His Thr His Ala
 50 55 60
 Gln Val Val Lys Ile Phe Gln Ser Ile Pro Ile Gly Ala Ser Val Asp
 65 70 75 80
 Leu Glu Leu Cys Arg
 85

<210> 296
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 296
 Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu Pro
 1 5 10 15
 Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala Ala
 20 25 30
 Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn Asp
 35 40 45
 Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe Gln
 50 55 60
 Ser Ile Pro Ile Gly Ala Ser Val Asp Leu Glu Leu Cys Arg
 65 70 75

<210> 297

<211> 88
 <212> PRT
 <213> Homo sapiens

<400> 297

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Phe Ile His Thr Lys Leu Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr
 1           5           10           15
Val Val Gly Gly Asp Glu Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu
          20           25           30
Val Leu Asp Gly Pro Ala Ala Leu Asp Gly Lys Met Glu Thr Gly Asp
          35           40           45
Val Ile Val Ser Val Asn Asp Thr Cys Val Leu Gly His Thr His Ala
          50           55           60
Gln Val Val Lys Ile Phe Gln Ser Ile Pro Ile Gly Ala Ser Val Asp
65           70           75           80
Leu Glu Leu Cys Arg Gly Tyr Pro
          85
  
```

<210> 298
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 298

```

Lys Gly Lys Phe Ile His Thr Lys Leu Arg Lys Ser Ser Arg Gly Phe
 1           5           10           15
Gly Phe Thr Val Val Gly Gly Asp Glu Pro Asp Glu Phe Leu Gln Ile
          20           25           30
Lys Ser Leu Val Leu Asp Gly Pro Ala Ala Leu Asp Gly Lys Met Glu
          35           40           45
Thr Gly Asp Val Ile Val Ser Val Asn Asp Thr Cys Val Leu Gly His
          50           55           60
Thr His Ala Gln Val Val Lys Ile Phe Gln Ser Ile Pro Ile Gly Ala
65           70           75           80
Ser Val Asp Leu Glu Leu Cys Arg
          85
  
```

<210> 299
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 299

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Lys Gly Lys Phe Ile His Thr Lys Leu Arg Lys Ser Ser Arg Gly Phe
 1           5           10           15
Gly Phe Thr Val Val Gly Gly Asp Glu Pro Asp Glu Phe Leu Gln Ile
          20           25           30
Lys Ser Leu Val Leu Asp Gly Pro Ala Ala Leu Asp Gly Lys Met 'Glu
          35           40           45
Thr Gly Asp Val Ile Val Ser Val Asn Asp Thr Cys Val Leu Gly His
          50           55           60
Thr His Ala Gln Val Val Lys Ile Phe Gln Ser Ile Pro Ile Gly Ala
65           70           75           80
Ser
  
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<210> 300

<211> 94
 <212> PRT
 <213> Homo sapiens

<400> 300
 Glu Leu Lys Gly Lys Phe Ile His Thr Lys Leu Arg Lys Ser Ser Arg
 1 5 10 15
 Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu Pro Asp Glu Phe Leu
 20 25 30
 Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala Ala Leu Asp Gly Lys
 35 40 45
 Met Glu Thr Gly Asp Val Ile Val Ser Val Asn Asp Thr Cys Val Leu
 50 55 60
 Gly His Thr His Ala Gln Val Val Lys Ile Phe Gln Ser Ile Pro Ile
 65 70 75 80
 Gly Ala Ser Val Asp Leu Glu Leu Cys Arg Gly Tyr Pro Leu
 85 90

<210> 301
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 301
 Ser Glu Leu Lys Gly Lys Phe Ile His Thr Lys Leu Arg Lys Ser Ser
 1 5 10 15
 Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu Pro Asp Glu Phe
 20 25 30
 Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala Ala Leu Asp Gly
 35 40 45
 Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn Asp Thr Cys Val
 50 55 60
 Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe Gln Ser Ile Pro
 65 70 75 80
 Ile Gly Ala Ser Val Asp Leu Glu Leu Cys Arg Gly Tyr Pro Leu Pro
 85 90 95
 Phe Asp Pro

<210> 302
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 302
 Arg Lys Ser Ala Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
 1 5 10 15
 Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
 20 25 30
 Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
 35 40 45
 Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
 50 55 60
 Gln Ser Ile Pro Ile Gly Ala Ser
 65 70

<210> 303

<211> 72
 <212> PRT
 <213> Homo sapiens

<400> 303
 Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Glu Glu
 1 5 10 15
 Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
 20 25 30
 Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
 35 40 45
 Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
 50 55 60
 Gln Ser Ile Pro Ile Gly Ala Ser
 65 70

<210> 304
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 304
 Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
 1 5 10 15
 Pro Asp Glu Phe Leu Gln Leu Lys Ser Leu Val Leu Asp Gly Pro Ala
 20 25 30
 Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
 35 40 45
 Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
 50 55 60
 Gln Ser Ile Pro Ile Gly Ala Ser
 65 70

<210> 305
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 305
 Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
 1 5 10 15
 Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
 20 25 30
 Ser Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
 35 40 45
 Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
 50 55 60
 Gln Ser Ile Pro Ile Gly Ala Ser
 65 70

<210> 306
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 306
 Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu

1	5	10	15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala			
20	25	30	
Ala Leu Asp Gly Arg Met Glu Thr Gly Asp Val Ile Val Ser Val Asn			
35	40	45	
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe			
50	55	60	
Gln Ser Ile Pro Ile Gly Ala Ser			
65	70		

<210> 307
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 307
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ala Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 308
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 308
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Glu Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 309
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 309
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Leu Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe

50
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

60

<210> 310
<211> 72
<212> PRT
<213> Homo sapiens

<400> 310
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ser Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 311
<211> 72
<212> PRT
<213> Homo sapiens

<400> 311
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Leu Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ala Ser
65 70

<210> 312
<211> 72
<212> PRT
<213> Homo sapiens

<400> 312
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1 5 10 15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
20 25 30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
35 40 45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
50 55 60
Gln Ser Ile Pro Ile Gly Ser Ser
65 70

<210> 313

<211> 72
 <212> PRT
 <213> Homo sapiens

<400> 313
 Arg Lys Ser Thr Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
 1 5 10 15
 Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
 20 25 30
 Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
 35 40 45
 Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
 50 55 60
 Gln Ser Ile Pro Ile Gly Ala Ser
 65 70

<210> 314
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 314
 Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
 1 5 10 15
 Pro Gly Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
 20 25 30
 Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
 35 40 45
 Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
 50 55 60
 Gln Ser Ile Pro Ile Gly Ala Ser
 65 70

<210> 315
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 315
 Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
 1 5 10 15
 Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Ala Leu Asp Gly Pro Ala
 20 25 30
 Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
 35 40 45
 Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
 50 55 60
 Gln Ser Ile Pro Ile Gly Ala Ser
 65 70

<210> 316
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 316
 Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu

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1           5           10           15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
                20           25           30
Ala Leu Ala Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
                35           40           45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
                50           55           60
Gln Ser Ile Pro Ile Gly Ala Ser
65                70

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<210> 317
 <211> 72
 <212> PRT
 <213> Homo sapiens

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<400> 317
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1           5           10           15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
                20           25           30
Ala Leu Asp Gly Lys Met Glu Thr Ala Asp Val Ile Val Ser Val Asn
                35           40           45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
                50           55           60
Gln Ser Ile Pro Ile Gly Ala Ser
65                70

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<210> 318
 <211> 72
 <212> PRT
 <213> Homo sapiens

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<400> 318
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1           5           10           15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
                20           25           30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
                35           40           45
Asp Thr Ala Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
                50           55           60
Gln Ser Ile Pro Ile Gly Ala Ser
65                70

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<210> 319
 <211> 72
 <212> PRT
 <213> Homo sapiens

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<400> 319
Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
1           5           10           15
Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
                20           25           30
Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
                35           40           45
Asp Thr Cys Val Leu Gly His Thr His Ala Gln Ala Val Lys Ile Phe

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50 55 60
 Gln Ser Ile Pro Ile Gly Ala Ser
 65 70

<210> 320
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 320
 Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
 1 5 10 15
 Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
 20 25 30
 Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
 35 40 45
 Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
 50 55 60
 Gln Ser Ile Ala Ile Gly Ala Ser
 65 70

<210> 321
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 321
 Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
 1 5 10 15
 Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
 20 25 30
 Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
 35 40 45
 Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
 50 55 60
 Gln Ser Ile Pro Ile Gly Ala Ala
 65 70

<210> 322
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 322
 Arg Lys Ser Ser Ser Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
 1 5 10 15
 Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
 20 25 30
 Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
 35 40 45
 Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
 50 55 60
 Gln Ser Ile Pro Ile Gly Ala Ser
 65 70

<210> 323

<211> 72
 <212> PRT
 <213> Homo sapiens

<400> 323

Arg	Lys	Ser	Ser	Arg	Gly	Phe	Gly	Phe	Thr	Val	Val	Gly	Gly	Leu	Glu
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Pro	Asp	Glu	Phe	Leu	Gln	Ile	Lys	Ser	Leu	Val	Leu	Asp	Gly	Pro	Ala
			20				25						30		
Ala	Leu	Asp	Gly	Lys	Met	Glu	Thr	Gly	Asp	Val	Ile	Val	Ser	Val	Asn
		35				40						45			
Asp	Thr	Cys	Val	Leu	Gly	His	Thr	His	Ala	Gln	Val	Val	Lys	Ile	Phe
	50					55					60				
Gln	Ser	Ile	Pro	Ile	Gly	Ala	Ser								
65					70										

<210> 324
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 324

Arg	Lys	Ser	Ser	Arg	Gly	Phe	Gly	Phe	Thr	Val	Val	Gly	Gly	Asp	Glu
1				5					10					15	
Pro	Asp	Glu	Phe	Leu	Gln	Ile	Thr	Ser	Leu	Val	Leu	Asp	Gly	Pro	Ala
			20				25						30		
Ala	Leu	Asp	Gly	Lys	Met	Glu	Thr	Gly	Asp	Val	Ile	Val	Ser	Val	Asn
		35				40						45			
Asp	Thr	Cys	Val	Leu	Gly	His	Thr	His	Ala	Gln	Val	Val	Lys	Ile	Phe
	50					55					60				
Gln	Ser	Ile	Pro	Ile	Gly	Ala	Ser								
65					70										

<210> 325
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 325

Arg	Lys	Ser	Ser	Arg	Gly	Phe	Gly	Phe	Thr	Val	Val	Gly	Gly	Asp	Glu
1				5					10					15	
Pro	Asp	Glu	Phe	Leu	Gln	Ile	Lys	Ser	Leu	Val	Leu	Asp	Gly	Pro	Ala
			20				25						30		
Gly	Leu	Asp	Gly	Lys	Met	Glu	Thr	Gly	Asp	Val	Ile	Val	Ser	Val	Asn
		35				40						45			
Asp	Thr	Cys	Val	Leu	Gly	His	Thr	His	Ala	Gln	Val	Val	Lys	Ile	Phe
	50					55					60				
Gln	Ser	Ile	Pro	Ile	Gly	Ala	Ser								
65					70										

<210> 326
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 326

Arg	Lys	Ser	Ser	Arg	Gly	Phe	Gly	Phe	Thr	Val	Val	Gly	Gly	Asp	Glu
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1		5		10		15									
Pro	Asp	Glu	Phe	Leu	Gln	Ile	Lys	Ser	Leu	Val	Leu	Asp	Gly	Pro	Ala
		20						25					30		
Ala	Leu	Asp	Gly	Lys	Met	Glu	Thr	Ser	Asp	Val	Ile	Val	Ser	Val	Asn
		35					40					45			
Asp	Thr	Cys	Val	Leu	Gly	His	Thr	His	Ala	Gln	Val	Val	Lys	Ile	Phe
	50					55					60				
Gln	Ser	Ile	Pro	Ile	Gly	Ala	Ser								
65					70										

<210> 327
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 <212> PRT
 <213> Homo sapiens

<400> 327															
Arg	Lys	Ser	Ser	Arg	Gly	Phe	Gly	Phe	Thr	Val	Val	Gly	Gly	Asp	Glu
1			5					10					15		
Pro	Asp	Glu	Phe	Leu	Gln	Ile	Lys	Ser	Leu	Val	Leu	Asp	Gly	Pro	Ala
		20						25					30		
Ala	Leu	Asp	Gly	Lys	Met	Glu	Thr	Gly	Asp	Val	Ile	Val	Ser	Val	Lys
		35					40					45			
Asp	Thr	Cys	Val	Leu	Gly	His	Thr	His	Ala	Gln	Val	Val	Lys	Ile	Phe
	50					55					60				
Gln	Ser	Ile	Pro	Ile	Gly	Ala	Ser								
65					70										

<210> 328
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 328															
Arg	Lys	Ser	Ser	Arg	Gly	Phe	Gly	Phe	Thr	Val	Val	Gly	Gly	Asp	Glu
1			5					10					15		
Pro	Asp	Glu	Phe	Leu	Gln	Ile	Lys	Ser	Leu	Val	Leu	Asp	Gly	Pro	Ala
		20						25					30		
Ala	Leu	Asp	Gly	Lys	Met	Glu	Thr	Gly	Asp	Val	Ile	Val	Ser	Val	Asn
		35					40					45			
Asp	Thr	Cys	Val	Leu	Phe	His	Thr	His	Ala	Gln	Val	Val	Lys	Ile	Phe
	50					55					60				
Gln	Ser	Ile	Pro	Ile	Gly	Ala	Ser								
65					70										

<210> 329
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 <212> PRT
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<400> 329															
Arg	Lys	Ser	Ser	Arg	Gly	Phe	Gly	Phe	Thr	Val	Val	Gly	Gly	Asp	Glu
1			5					10					15		
Pro	Asp	Glu	Phe	Leu	Gln	Ile	Lys	Ser	Leu	Val	Leu	Asp	Gly	Pro	Ala
		20						25					30		
Ala	Leu	Asp	Gly	Lys	Met	Glu	Thr	Gly	Asp	Val	Ile	Val	Ser	Val	Asn
		35					40					45			
Asp	Thr	Cys	Val	Leu	Gly	His	Thr	His	Ala	Gln	Asn	Val	Lys	Ile	Phe

50		55	60
Gln Ser Ile Pro Ile Gly Ala Ser			
65	70		

<210> 330
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 <213> Homo sapiens

<400> 330
 Arg Lys Ser Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu
 1 5 10 15
 Pro Asp Glu Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala
 20 25 30
 Ala Leu Asp Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn
 35 40 45
 Asp Thr Cys Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe
 50 55 60
 Gln Ser Ile Pro Ile Ser Ala Ser
 65 70